

JULY 1, 1978



safety glazing certification council

ANSI Z97.1-1975
certified products directory
safety glazing material used in buildings

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PROGRAM CONCEPT

The safety of the public is paramount. Manufacturers of safety glazing products, building code administrators and others responsible for the safety of the public, recognizing the need for a common standard for safety glazing materials, jointly established the Safety Glazing Certification Council (SGCC).

The Safety Glazing Certification Council is a non-profit organization which has established and maintains a program to administer periodic testing as outlined in American National Standard Z97.1-1975, an internationally recognized standard for safety glazing in buildings. This standard subjects glazing materials to a practical test to determine that if they are broken by human contact, they break in a manner that would minimize the likelihood of cutting or piercing injury. SGCC's responsibilities are threefold: to assure a periodic testing program is maintained; to approve and register the form of the manufacturer's label; and to withdraw the manufacturer's authority to use that label if its products do not meet ANSI Z97.1-1975 standards.

Management and control of the program is vested in a board of directors, half representing industry and half representing public interest. The public interest representatives are empowered to veto any action regardless of the number present at a meeting. This insures against industry dominance of SGCC actions. The organization is operated in compliance with the American National Standard Practice for Certification Procedures Z34.1-1947 (R1959).

The program uses independent testing laboratories under the supervision of a qualified administrator, who is a professional engineer. He is unaffiliated with any manufacturer of safety glazing materials, and is hired by and responsible to the Safety Glazing Certification Council. The manufacturer of the products listed herein has certified that the labeled materials comply with the safety characteristics established by ANSI Z97.1-1975. The compliance of the manufacturer with the requirements of that standard is being checked periodically by an independent testing laboratory under the supervision of SGCC.

Every manufacturer of safety glazing material is eligible and encouraged to apply for certification. However, his products are not accepted and certified until an independent laboratory test indicates compliance with the standard. Once certified, each product is assigned an SGCC certification number to identify it and the factory at which it is made. Then, at least twice a year SGCC independently selects samples during unannounced visits to the manufacturing plant or randomly from the market place to ensure continued adherence to the standard. Based on these re-evaluation reports SGCC authorizes continued use of the certification label and the product listing published in this directory.

The directory is divided into three basic listings: the first is by numerical sequence of certified product numbers listing the manufacturer holding that number; the second is of manufacturers listed alphabetically by plants and the approved products manufactured at those plants; the third is by products listing all manufacturers and their plants approved for each product. There is also an alphabetical listing by manufacturers illustrating a typical label of that manufacturer. The table of contents lists various procedural and administrative information, as well as information as to where officers and directors may be located.

Information from SGCC concerning a statement of procedures or copies of the minutes are available to manufacturers, public interest groups and individuals upon request.

MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Safety Glazing Certification Council met on May 2, 1978. Interested persons may obtain minutes of this meeting by writing to the Safety Glazing Certification Council.

* * * * *

Certification in this directory is up-to-date as of July 1, 1978; however, products may be certified or certification removed from time to time.

Please contact the SGCC office for the latest up-to-date information.

Requests for future copies of this directory, or any questions or comments should be directed to:

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Safety Glazing Certification Council
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ROSTER

May, 1978

BOARD OF DIRECTORS

Representing Public Interest

Mrs. Jean Cornwell, Consumer
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Orville L. Pierson, Consumer
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SGCC CERTIFICATION COMMITTEE

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C-E Glass
Canadian Pittsburgh Industries
Central Glass Company
Chromalloy-Safetee
Downey Glass
Falconer Plate Glass
Feather-lite
Flex-O-Glass
Ford Motor Company
Fourco Glass Company
Guardian Industries
Hamilton of Indiana
Hard-Temp
LOF Glass, Inc.
Libbey-Owens-Ford Company
Minex-Poland
Northwestern Industries
Ohio Plate Glass Company
PPG Industries, Inc.
Plaskolite, Inc.
Rotuba Extruders, Inc.
Safelite Industries
Sheffield Plastics
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Tempglass, Inc.
Tempglass Western, Inc.
Temp-Safe, Inc.
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Tuf-flex Glass, Inc.
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Delbert Christensen
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Jerry Bienenfeld

Edward Mullery
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A. P. Stillman
Gerald L. Reynolds

Members from those without certified products:

du Pont	George L. Graf, Jr.
Glasstech, Inc.	Norman Nitschke
Mobay	Henry S. Byrne
Standard Packaging	Martin I. Cohen
Three M Company	Caryl E. Twitchell

Robert B. Rector

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Texas Tech University	Joseph E. Minor
HUD/FHA	Lynford K. Snell
Consumer	Orville L. Pierson

Legal Counsel:

Samuel Steen, Esquire

Auditor:

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CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC- 12 Virginia Glass	SGCC-151 Libbey-Owens-Ford	SGCC-314 Tuf-flex
SGCC- 14 Virginia Glass	SGCC-152 Plaskolite	SGCC-315 Tuf-flex
SGCC- 19 Libbey-Owens-Ford	SGCC-157 Chromalloy-Safetee	SGCC-316 Rotuba Extruders
SGCC- 24 ASG Industries	SGCC-160 Guardian Industries	SGCC-320 Tuf-flex
SGCC- 26 ASG Industries	SGCC-173 Sheffield Plastics	SGCC-321 Tuf-flex
SGCC- 27 ASG Industries	SGCC-181 Chromalloy-Safetee	SGCC-322 Tuf-flex
SGCC- 28 ASG Industries	SGCC-182 Chromalloy-Safetee	SGCC-323 Tuf-flex
SGCC- 31 ASG Industries	SGCC-185 Ohio Plate Glass	SGCC-328 Ohio Plate Glass
SGCC- 37 Vidrierias De Llodio	SGCC-186 Ohio Plate Glass	SGCC-330 C-E Glass
SGCC- 38 Vidrierias De Llodio	SGCC-187 Ohio Plate Glass	SGCC-331 C-E Glass
SGCC- 40 Guardian Industries	SGCC-188 Ohio Plate Glass	SGCC-336 C-E Glass
SGCC- 41 Guardian Industries	SGCC-194 PPG Industries	SGCC-337 Tempered Glass
SGCC- 43 Guardian Industries	SGCC-195 PPG Industries	SGCC-338 Tempered Glass
SGCC- 47 C-E Glass	SGCC-196 PPG Industries	SGCC-341 Ford Motor Company
SGCC- 49 C-E Glass	SGCC-200 PPG Industries	SGCC-342 Ford Motor Company
SGCC- 54 Hamilton of Indiana	SGCC-201 C-E Glass	SGCC-344 C-E Glass
SGCC- 56 Hamilton of Indiana	SGCC-203 Ohio Plate Glass	SGCC-345 C-E Glass
SGCC- 57 Hamilton of Indiana	SGCC-209 Canadian Pittsburgh	SGCC-346 C-E Glass
SGCC- 59 PPG Industries	SGCC-219 PPG Industries	SGCC-348 Tempered Glass
SGCC- 60 PPG Industries	SGCC-220 ASG Industries	SGCC-350 LOF Glass
SGCC- 61 PPG Industries	SGCC-225 Safelite Industries	SGCC-351 LOF Glass
SGCC- 63 PPG Industries	SGCC-229 Tuf-flex	SGCC-352 LOF Glass
SGCC- 64 PPG Industries	SGCC-245 C-E Glass	SGCC-359 Sheffield Plastics
SGCC- 70 PPG Industries	SGCC-246 C-E Glass	SGCC-360 C-E Glass
SGCC- 73 PPG Industries	SGCC-248 PPG Industries	SGCC-361 C-E Glass
SGCC- 74 PPG Industries	SGCC-249 PPG Industries	SGCC-371 C-E Glass
SGCC- 75 PPG Industries	SGCC-250 PPG Industries	SGCC-373 LOF Glass
SGCC- 76 C-E Glass	SGCC-251 Canadian Pittsburgh	SGCC-374 LOF Glass
SGCC- 82 Libbey-Owens-Ford	SGCC-252 Tyre Brothers	SGCC-375 LOF Glass
SGCC- 89 ASG Industries	SGCC-253 Tyre Brothers	SGCC-378 Chromalloy-Safetee
SGCC- 90 ASG Industries	SGCC-254 Tyre Brothers	SGCC-379 Chromalloy-Safetee
SGCC- 91 ASG Industries	SGCC-255 Tyre Brothers	SGCC-380 Chromalloy-Safetee
SGCC- 92 Virginia Glass	SGCC-256 Tyre Brothers	SGCC-381 Chromalloy-Safetee
SGCC- 93 Virginia Glass	SGCC-257 Tuf-flex	SGCC-382 PPG Industries
SGCC- 94 Virginia Glass	SGCC-258 Tuf-flex	SGCC-385 C-E Glass
SGCC- 95 Virginia Glass	SGCC-263 Guardian Industries	SGCC-386 Libbey-Owens-Ford
SGCC- 97 Guardian Industries	SGCC-264 Guardian Industries	SGCC-390 Tuf-flex
SGCC- 98 Guardian Industries	SGCC-265 C-E Glass	SGCC-391 Tuf-flex
SGCC-102 PPG Industries	SGCC-266 PPG Industries	SGCC-392 Tuf-flex
SGCC-108 C-E Glass	SGCC-267 PPG Industries	SGCC-396 Ford Motor Company
SGCC-110 Texas Tempered Glass	SGCC-270 Tuf-flex	SGCC-397 Ford Motor Company
SGCC-113 Flex-O-Glass	SGCC-274 M. L. Burke	SGCC-400 PPG Industries
SGCC-125 C-E Glass	SGCC-279 Ohio Plate Glass	SGCC-402 PPG Industries
SGCC-127 Hamilton of Indiana	SGCC-286 Vidrierias De Llodio	SGCC-403 PPG Industries
SGCC-128 Hamilton of Indiana	SGCC-291 Fourco Glass	SGCC-404 PPG Industries
SGCC-129 Hamilton of Indiana	SGCC-293 Fourco Glass	SGCC-405 PPG Industries
SGCC-131 Guardian Industries	SGCC-295 PPG Industries	SGCC-409 Guardian Industries
SGCC-137 Texas Tempered Glass	SGCC-297 Fourco Glass	SGCC-410 C-E Glass
SGCC-141 ASG Industries	SGCC-298 Tuf-flex	SGCC-411 C-E Glass
SGCC-150 Libbey-Owens-Ford	SGCC-300 Guardian Industries	

CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC-412 C-E Glass	SGCC-553 Central Glass	SGCC-654 Ohio Plate Glass
SGCC-413 C-E Glass	SGCC-562 Ohio Plate Glass	SGCC-658 Cristales Inastillables
SGCC-414 C-E Glass	SGCC-567 Manchester Products	SGCC-659 M. L. Burke
SGCC-415 M. L. Burke	SGCC-570 Texas Tempered Glass	SGCC-662 Guardian Industries
SGCC-421 Tempered Glass	SGCC-583 Artistic Glass	SGCC-668 Texas Tempered Glass
SGCC-425 Guardian Industries	SGCC-584 Artistic Glass	SGCC-669 Texas Tempered Glass
SGCC-440 Temp-Safe	SGCC-585 Artistic Glass	SGCC-673 Carolina Processed Glass
SGCC-441 Temp-Safe	SGCC-586 Feather-lite	SGCC-674 Carolina Processed Glass
SGCC-444 Libbey-Owens-Ford	SGCC-587 ASG Industries	SGCC-675 PPG Industries
SGCC-446 PPG Industries	SGCC-588 ASG Industries	SGCC-676 PPG Industries
SGCC-449 Libbey-Owens-Ford	SGCC-589 M. L. Burke	SGCC-678 Downey Glass
SGCC-450 Libbey-Owens-Ford	SGCC-592 Tempglass	SGCC-679 PPG Industries
SGCC-451 Libbey-Owens-Ford	SGCC-593 Tempglass	SGCC-680 PPG Industries
SGCC-452 C-E Glass	SGCC-594 Tempglass	SGCC-683 ASG Industries
SGCC-453 C-E Glass	SGCC-595 Tempglass	SGCC-690 Sun Valley
SGCC-454 PPG Industries	SGCC-597 Tempglass	SGCC-692 Tuf-flex
SGCC-455 PPG Industries	SGCC-598 ASG Industries	SGCC-693 Tuf-flex
SGCC-456 PPG Industries	SGCC-600 Doulton Tempered	SGCC-694 Tuf-flex
SGCC-458 Guardian Industries	SGCC-601 Doulton Tempered	SGCC-695 Tuf-flex
SGCC-464 Libbey-Owens-Ford	SGCC-603 Downey Glass	SGCC-698 Libbey-Owens-Ford
SGCC-470 Visador	SGCC-604 Downey Glass	SGCC-700 Doulton Tempered
SGCC-471 Guardian Industries	SGCC-605 Downey Glass	SGCC-708 Falconer Plate Glass
SGCC-474 PPG Industries	SGCC-606 Downey Glass	SGCC-709 Falconer Plate Glass
SGCC-475 PPG Industries	SGCC-607 Downey Glass	SGCC-710 Falconer Plate Glass
SGCC-479 Northwestern Industries	SGCC-608 Downey Glass	SGCC-711 Falconer Plate Glass
SGCC-481 Northwestern Industries	SGCC-609 Downey Glass	SGCC-712 Falconer Plate Glass
SGCC-482 Tuf-flex	SGCC-610 Feather-lite	SGCC-723 Tempglass Western
SGCC-483 Tuf-flex	SGCC-615 M. L. Burke	SGCC-724 Tempglass Western
SGCC-487 Guardian Industries	SGCC-617 Guardian Industries	SGCC-725 Tempglass Western
SGCC-488 Temp-Safe	SGCC-619 C-E Glass	SGCC-726 Tempglass Western
SGCC-489 C-E Glass	SGCC-620 C-E Glass	SGCC-755 Guardian Industries
SGCC-490 Tuf-flex	SGCC-621 Hamilton of Indiana	SGCC-818 Tuf-flex
SGCC-491 Tuf-flex	SGCC-629 Tempered Glass	SGCC-889 C-E Glass
SGCC-499 ASG Industries	SGCC-630 Downey Glass	SGCC-891 Tempglass Western
SGCC-500 Northwestern Industries	SGCC-631 Guardian Industries	SGCC-896 C-E Glass
SGCC-502 Northwestern Industries	SGCC-632 ASG Industries	SGCC-900 Chromalloy-Safetee
SGCC-508 Central Glass	SGCC-633 Guardian Industries	SGCC-901 Northwestern Industries
SGCC-509 Visador	SGCC-634 Minex-Poland	SGCC-903 Northwestern Industries
SGCC-510 Visador	SGCC-635 Minex-Poland	SGCC-904 C-E Glass
SGCC-514 Downey Glass	SGCC-637 Cal-Temp	SGCC-905 C-E Glass
SGCC-515 Downey Glass	SGCC-638 Cal-Temp	SGCC-906 Tuf-flex
SGCC-516 Downey Glass	SGCC-639 Cal-Temp	SGCC-907 Northwestern Industries
SGCC-520 Anglass Industries	SGCC-640 Cal-Temp	SGCC-910 Romsit
SGCC-525 Tuf-flex	SGCC-641 Cal-Temp	SGCC-914 C-E Glass
SGCC-532 Temp-Safe	SGCC-642 Sun Valley	SGCC-917 Romsit
SGCC-543 Central Glass	SGCC-643 Sun Valley	SGCC-921 Tuf-flex
SGCC-544 Libbey-Owens-Ford	SGCC-646 Minex-Poland	SGCC-924 C-E Glass
SGCC-545 LOF Glass	SGCC-647 PPG Industries	SGCC-926 ASG Industries
SGCC-547 ASG Industries	SGCC-648 PPG Industries	SGCC-927 PPG Industries
	SGCC-653 PPG Industries	SGCC-932 Northwestern Industries

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

ASG Industries, Inc.; Greenland, Tennessee

SGCC-598	1/8	inch	tempered transparent glass	Unlimited size
SGCC-220	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 89	1/4	inch	tempered transparent glass	Unlimited size
SGCC- 90	3/8	inch	tempered transparent glass	Unlimited size
SGCC- 91	1/2	inch	tempered transparent glass	Unlimited size
SGCC-547	3/4	inch	tempered transparent glass	Unlimited size
SGCC-587	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-588	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

ASG Industries, Inc.; Kingsport, Tennessee

SGCC- 28	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 24	1/4	inch	tempered transparent glass	Unlimited size
SGCC-141	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC- 31	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC- 27	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC- 26	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-499	1/8:1/4		laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-632	1/4	inch	polished wired glass (3/4 inch diamond)	Unlimited size
SGCC-683	1/4	inch	polished wired glass (Pinstripe; 1/2 inch parallel)	Unlimited size
SGCC-926	7/32	inch	pattern wired glass (Pinstripe; 1/2 inch parallel) (Finetex)	Unlimited size

Anglass Industries, Inc.; San Fernando, California

SGCC-520	1/8	inch	tempered transparent glass	Unlimited size
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Artistic Glass Products Company; Trumbauersville, Pennsylvania

SGCC-583	1/8	inch	tempered transparent glass	13" by 19"
SGCC-584	3/16	inch	tempered transparent glass	18" by 24"
SGCC-585	1/4	inch	tempered transparent glass	18" by 24"

M. L. Burke Company; Cornwells Heights, Pennsylvania

SGCC-415	1/8	inch	tempered transparent glass	Unlimited size
SGCC-274	3/16	inch	tempered transparent glass	Unlimited size
SGCC-615	1/4	inch	tempered transparent glass	Unlimited size
SGCC-659	5/32	inch	tempered pattern glass (medium patterns)	Unlimited size
SGCC-589	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

C-E Glass; Atlanta, Georgia

SGCC-924	3/16	inch	tempered transparent glass	Unlimited size
SGCC-108	1/4	inch	tempered transparent glass	Unlimited size
SGCC-371	3/8	inch	tempered transparent glass	Unlimited size
SGCC-125	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

C-E Glass; Carson, California

SGCC-453	1/8	inch	tempered transparent glass	Unlimited size
SGCC-410	3/16	inch	tempered transparent glass	Unlimited size
SGCC-411	1/4	inch	tempered transparent glass	Unlimited size
SGCC-412	3/8	inch	tempered transparent glass	Unlimited size
SGCC-413	1/2	inch	tempered transparent glass	Unlimited size
SGCC-452	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-414	3/16	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-619	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-620	7/32	inch	tempered pattern glass (medium patterns)	Unlimited size

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

C-E Glass; Cinnaminson, New Jersey

SGCC-489	1/8	inch	tempered transparent glass	Unlimited size
SGCC-245	3/16	inch	tempered transparent glass	Unlimited size
SGCC-246	1/4	inch	tempered transparent glass	Unlimited size
SGCC-345	3/8	inch	tempered transparent glass	Unlimited size
SGCC-346	1/2	inch	tempered transparent glass	Unlimited size
SGCC-265	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

C-E Glass; Fullerton, California

SGCC-914	3/16	inch	tempered pattern glass (shallow patterns)	Unlimited size
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C-E Glass; Lancaster, Ohio; Slocum Street

SGCC-330	3/16	inch	tempered transparent glass	30" by 39"
SGCC-331	7/32	inch	tempered transparent glass	30" by 39"

C-E Glass; Miami, Florida

SGCC- 76	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 49	1/4	inch	tempered transparent glass	Unlimited size
SGCC-905	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

C-E Glass; Tampa, Florida

SGCC-385	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 47	1/4	inch	tempered transparent glass	Unlimited size
SGCC-889	3/8	inch	tempered transparent glass	Unlimited size
SGCC-896	1/2	inch	tempered transparent glass	Unlimited size
SGCC-201	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

C-E Glass; Warrenton, Missouri

SGCC-360	1/8	inch	tempered transparent glass	Unlimited size
SGCC-336	3/16	inch	tempered transparent glass	Unlimited size
SGCC-361	1/4	inch	tempered transparent glass	Unlimited size
SGCC-904	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-344	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Cal-Temp; Santa Fe Springs, California

SGCC-637	3/16	inch	tempered transparent glass	Unlimited size
SGCC-638	1/4	inch	tempered transparent glass	Unlimited size
SGCC-639	3/8	inch	tempered transparent glass	Unlimited size
SGCC-640	1/2	inch	tempered transparent glass	Unlimited size
SGCC-641	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada

SGCC-251	1/8	inch	tempered transparent glass	Unlimited size
SGCC-209	3/16	inch	tempered transparent glass	Unlimited size

Carolina Processed Glass, Inc.; Rock Hill, South Carolina

SGCC-673	1/4	inch	tempered transparent glass	Unlimited size
SGCC-674	3/8	inch	tempered transparent glass	Unlimited size

Central Glass Company, Ltd.; Tokyo, Japan

SGCC-553	1/4	inch	laminated transparent glass (0.030 inch plastic)	Unlimited size
SGCC-508	1/4	inch	polished wired glass (3/4 inch diamond mesh)	Unlimited size
SGCC-543	1/4	inch	polished wired glass (1/2 inch square mesh)	Unlimited size

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania

SGCC-900	3/16	inch	tempered transparent glass	Unlimited size
SGCC-157	1/4	inch	tempered transparent glass	Unlimited size
SGCC-181	3/8	inch	tempered transparent glass	Unlimited size
SGCC-182	1/2	inch	tempered transparent glass	Unlimited size
SGCC-378	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-379	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-380	3/8	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-381	1/2	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size

Cristales Inastillables De Mexico, S. A.; Mexico City, Mexico

SGCC-658	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
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Doulton Tempered Glass, Ltd.; Bradford, England

SGCC-600	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-700	3/16	inch	tempered transparent glass	Unlimited size
SGCC-601	1/4	inch	tempered transparent glass	Unlimited size

Downey Glass Company; Downey, California

SGCC-603	1/8	inch	tempered transparent glass	Unlimited size
SGCC-606	3/16	inch	tempered transparent glass	Unlimited size
SGCC-609	1/4	inch	tempered transparent glass	Unlimited size
SGCC-604	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-605	1/8	inch	tempered pattern glass (medium patterns)	Unlimited size
SGCC-607	3/16	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-608	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Downey Glass Company; Los Angeles, California

SGCC-630	3/16	inch	tempered transparent glass	Unlimited size
SGCC-514	1/4	inch	tempered transparent glass	Unlimited size
SGCC-515	3/8	inch	tempered transparent glass	Unlimited size
SGCC-516	1/2	inch	tempered transparent glass	Unlimited size
SGCC-678	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Falconer Plate Glass Corporation; Falconer, New York

SGCC-708	3/16	inch	tempered transparent glass	Unlimited size
SGCC-709	1/4	inch	tempered transparent glass	Unlimited size
SGCC-710	3/8	inch	tempered transparent glass	Unlimited size
SGCC-711	1/2	inch	tempered transparent glass	Unlimited size
SGCC-712	3/4	inch	tempered transparent glass	Unlimited size

Feather-lite Manufacturing Company; Malvern, Arkansas

SGCC-586	1/8	inch	tempered transparent glass	Unlimited size
SGCC-610	3/16	inch	tempered transparent glass	Unlimited size

Flex-O-Glass, Inc.; Dixon, Illinois

SGCC-118	0.080	inch	through 0.125 inch smooth extruded acrylic	Unlimited size
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Ford Motor Company; Dearborn, Michigan

SGCC-341	1/8	inch	tempered transparent glass	Unlimited size
SGCC-396	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-342	3/16	inch	tempered transparent glass	Unlimited size
SGCC-397	1/4	inch	tempered transparent glass	Unlimited size

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

Fourco Glass Company; Clarksburg, West Virginia

SGCC-297	1/8	inch	tempered transparent glass	Unlimited size
SGCC-291	3/16	inch	tempered transparent glass	Unlimited size
SGCC-293	1/4	inch	tempered transparent glass	Unlimited size

Guardian Industries Corporation; Carleton, Michigan

SGCC-631	3/16	inch	tempered transparent glass	Unlimited size
SGCC-131	1/4	inch	tempered transparent glass	Unlimited size
SGCC-160	3/8	inch	tempered transparent glass	Unlimited size
SGCC-263	1/2	inch	tempered transparent glass	Unlimited size

Guardian Industries Corporation; Fort Lauderdale, Florida

SGCC-633	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 40	1/4	inch	tempered transparent glass	Unlimited size
SGCC- 41	3/8	inch	tempered transparent glass	Unlimited size
SGCC-617	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Guardian Industries Corporation; Torrance, California

SGCC-409	3/16	inch	tempered transparent glass	Unlimited size
SGCC-425	7/32	inch	tempered transparent glass	Unlimited size
SGCC- 43	1/4	inch	tempered transparent glass	Unlimited size
SGCC- 97	3/8	inch	tempered transparent glass	Unlimited size
SGCC- 98	1/2	inch	tempered transparent glass	Unlimited size
SGCC-264	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Guardian Industries Corporation; Upper Sandusky, Ohio

SGCC-458	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-487	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size

Guardian Industries Corporation; Webster, Massachusetts

SGCC-300	1/8	inch	tempered transparent glass	Unlimited size
SGCC-755	3/16	inch	tempered transparent glass	Unlimited size
SGCC-662	1/4	inch	tempered transparent glass	Unlimited size
SGCC-471	3/8	inch	tempered transparent glass	Unlimited size

Hamilton of Indiana, Inc.; Vincennes, Indiana

SGCC- 54	1/8	inch	tempered transparent glass	Unlimited size
SGCC- 56	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 57	1/4	inch	tempered transparent glass	Unlimited size
SGCC-127	3/8	inch	tempered transparent glass	Unlimited size
SGCC-128	1/2	inch	tempered transparent glass	Unlimited size
SGCC-621	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-129	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

LOF Glass, Inc.; Laurinburg, North Carolina

SGCC-350	1/8	inch	tempered transparent glass	Unlimited size
SGCC-545	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-351	3/16	inch	tempered transparent glass	Unlimited size
SGCC-352	1/4	inch	tempered transparent glass	Unlimited size
SGCC-373	5/16	inch	tempered transparent glass	Unlimited size
SGCC-374	3/8	inch	tempered transparent glass	Unlimited size
SGCC-375	1/2	inch	tempered transparent glass	Unlimited size

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

Libbey-Owens-Ford Company; East Toledo, Ohio

SGCC-450	SS/SS		laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-451	SS/DS		laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC- 82	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-698	1/2	inch	laminated transparent glass (0.030 inch plastic)	Unlimited size

Libbey-Owens-Ford Company; Rossford, Ohio

SGCC-386	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 19	1/4	inch	tempered transparent glass	Unlimited size
SGCC-464	5/16	inch	tempered transparent glass	Unlimited size
SGCC-449	3/8	inch	tempered transparent glass	Unlimited size
SGCC-150	1/2	inch	tempered transparent glass	Unlimited size
SGCC-544	5/8	inch	tempered transparent glass	Unlimited size
SGCC-151	3/4	inch	tempered transparent glass	Unlimited size
SGCC-444	7/8	inch	tempered transparent glass	Unlimited size

Manchester Products Company; Chatsworth, California

SGCC-567	0.100	inch	smooth extruded acrylic	Unlimited size
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Minex-Poland; Sandomierz, Poland

SGCC-634	1/8	inch	tempered transparent glass	Unlimited size
SGCC-646	3/16	inch	tempered transparent glass	Unlimited size
SGCC-635	5/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Northwestern Industries, Inc.; Seattle, Washington

SGCC-903	1/8	inch	tempered transparent glass	Unlimited size
SGCC-932	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-479	3/16	inch	tempered transparent glass	Unlimited size
SGCC-481	1/4	inch	tempered transparent glass	Unlimited size
SGCC-500	3/8	inch	tempered transparent glass	Unlimited size
SGCC-907	1/8	inch	tempered pattern glass (medium patterns)	Unlimited size
SGCC-901	5/32	inch	tempered pattern glass (medium patterns)	Unlimited size
SGCC-502	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

Ohio Plate Glass Company; Lewisburg, Ohio

SGCC-187	1/8	inch	tempered transparent glass	Unlimited size
SGCC-185	3/16	inch	tempered transparent glass	Unlimited size
SGCC-279	7/32	inch	tempered transparent glass	Unlimited size
SGCC-186	1/4	inch	tempered transparent glass	Unlimited size
SGCC-203	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-654	1/8	inch	tempered pattern glass (medium patterns)	Unlimited size
SGCC-188	3/16	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-328	3/16	inch	tempered pattern glass (deep patterns)	Unlimited size
SGCC-562	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

PPG Industries, Inc.; Baltimore, Maryland

SGCC-454	3/16	inch	tempered transparent glass	Unlimited size
SGCC-455	1/4	inch	tempered transparent glass	Unlimited size
SGCC-474	3/8	inch	tempered transparent glass	Unlimited size
SGCC-475	1/2	inch	tempered transparent glass	Unlimited size
SGCC-456	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

PPG Industries, Inc.; Carlisle, Pennsylvania						Unlimited size
SGCC-250	1/8	inch	tempered	transparent	glass	Unlimited size
SGCC-675	5/32	inch	tempered	transparent	glass (32 ounce)	Unlimited size
SGCC-249	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-382	1/4	inch	tempered	transparent	glass	Unlimited size
PPG Industries, Inc.; Chicago, Illinois						Unlimited size
SGCC-266	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-267	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-647	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-648	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC-653	7/32	inch	tempered	pattern	glass (shallow patterns)	Unlimited size
PPG Industries, Inc.; Crestline, Ohio						Unlimited size
SGCC- 60	1/8	inch	tempered	transparent	glass	Unlimited size
SGCC-679	5/32	inch	tempered	transparent	glass (32 ounce)	Unlimited size
SGCC-927	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-102	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-446	3/16	inch	tempered	pattern	glass (deep patterns)	Unlimited size
PPG Industries, Inc.; Dallas, Texas						Unlimited size
SGCC-400	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-402	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-405	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-403	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC-404	7/32	inch	tempered	pattern	glass (shallow patterns)	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania						Unlimited size
SGCC- 61	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC- 70	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC- 74	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC- 75	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC-248	3/4	inch	tempered	transparent	glass	Unlimited size
PPG Industries, Inc.; Fresno, California						Unlimited size
SGCC-295	1/8	inch	tempered	transparent	glass	Unlimited size
SGCC-676	5/32	inch	tempered	transparent	glass (32 ounce)	Unlimited size
SGCC- 64	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC- 73	1/4	inch	tempered	transparent	glass	Unlimited size
PPG Industries, Inc.; Miami, Florida						Unlimited size
SGCC-195	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-194	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-196	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-200	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC-219	7/32	inch	tempered	pattern	glass (shallow patterns)	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois						Unlimited size
SGCC- 59	1/8	inch	tempered	transparent	glass	Unlimited size
SGCC-680	5/32	inch	tempered	transparent	glass (32 ounce)	Unlimited size
SGCC- 63	3/16	inch	tempered	transparent	glass	Unlimited size
Plaskolite, Inc.; Columbus, Ohio						Unlimited size
SGCC-152	0.080	inch	through 0.125	inch	smooth extruded acrylic	Unlimited size

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

Romsit; Medias, Romania

SGCC-917	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-910	7/32	inch	tempered transparent glass	Unlimited size

Rotuba Extruders, Inc.; Linden, New Jersey

SGCC-316	0.080	inch	and greater thicknesses smooth extruded acrylic	Unlimited size
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Safelite Industries; Wichita, Kansas

SGCC-225	1/8	inch	tempered transparent glass	Unlimited size
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Sheffield Plastics, Inc.; Sheffield, Massachusetts

SGCC-359	0.060	inch	and greater thicknesses smooth extruded polycarbonate	Unlimited size
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SGCC-173	0.080	inch	through 0.125 inch smooth extruded acrylic	Unlimited size
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Sun Valley Tempered Glass Company; Oxnard, California

SGCC-642	3/16	inch	tempered transparent glass	Unlimited size
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SGCC-643	1/4	inch	tempered transparent glass	Unlimited size
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SGCC-690	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
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Tempered Glass Corporation; Tampa, Florida

SGCC-629	3/16	inch	tempered transparent glass	Unlimited size
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SGCC-337	1/4	inch	tempered transparent glass	Unlimited size
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SGCC-348	3/8	inch	tempered transparent glass	Unlimited size
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SGCC-338	1/2	inch	tempered transparent glass	Unlimited size
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SGCC-421	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
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Tempglass, Inc.; Perrysburg, Ohio

SGCC-592	3/16	inch	tempered transparent glass	Unlimited size
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SGCC-593	1/4	inch	tempered transparent glass	Unlimited size
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SGCC-594	3/8	inch	tempered transparent glass	Unlimited size
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SGCC-595	1/2	inch	tempered transparent glass	Unlimited size
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SGCC-597	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
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Tempglass Western, Inc.; Fremont, California

SGCC-723	3/16	inch	tempered transparent glass	Unlimited size
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SGCC-724	1/4	inch	tempered transparent glass	Unlimited size
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SGCC-725	3/8	inch	tempered transparent glass	Unlimited size
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SGCC-726	1/2	inch	tempered transparent glass	Unlimited size
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SGCC-891	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
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Temp-Safe, Inc.; Edmond, Oklahoma

SGCC-440	3/16	inch	tempered transparent glass	Unlimited size
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SGCC-441	1/4	inch	tempered transparent glass	Unlimited size
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SGCC-532	3/8	inch	tempered transparent glass	Unlimited size
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SGCC-488	1/2	inch	tempered transparent glass	Unlimited size
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Texas Tempered Glass Company; Houston, Texas

SGCC-110	3/16	inch	tempered transparent glass	Unlimited size
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SGCC-137	1/4	inch	tempered transparent glass	Unlimited size
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SGCC-668	3/8	inch	tempered transparent glass	Unlimited size
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SGCC-669	1/2	inch	tempered transparent glass	Unlimited size
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SGCC-570	7/32	inch	laminated transparent glass (0.030 inch plastic)	Unlimited size
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CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

Tuf-flex Glass, Inc.; Atlanta, Georgia

SGCC-320	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-321	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-692	5/16	inch	tempered	transparent	glass	Unlimited size
SGCC-322	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-323	1/2	inch	tempered	transparent	glass	Unlimited size

Tuf-flex Glass, Inc.; Elmhurst, Illinois

SGCC-257	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-229	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-693	5/16	inch	tempered	transparent	glass	Unlimited size
SGCC-258	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-270	1/2	inch	tempered	transparent	glass	Unlimited size

Tuf-flex Glass, Inc.; Irving, Texas

SGCC-921	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-390	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-694	5/16	inch	tempered	transparent	glass	Unlimited size
SGCC-391	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-392	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC-818	7/32	inch	tempered	pattern	glass (shallow patterns)	Unlimited size

Tuf-flex Glass, Inc.; Saddle Brook, New Jersey

SGCC-525	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-298	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-695	5/16	inch	tempered	transparent	glass	Unlimited size
SGCC-314	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-315	1/2	inch	tempered	transparent	glass	Unlimited size

Tuf-flex Glass, Inc.; Union City, California

SGCC-490	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-491	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-482	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-483	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC-906	7/32	inch	tempered	pattern	glass (shallow patterns)	Unlimited size

Tyre Brothers Glass Company; Los Angeles, California

SGCC-252	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC-253	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC-254	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC-255	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC-256	7/32	inch	tempered	pattern	glass (shallow patterns)	Unlimited size

Vidrierias De Llodio, S. A.; Alava, Spain

SGCC-286	1/8	inch	tempered	transparent	glass	Unlimited size
SGCC- 38	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC- 37	7/32	inch	tempered	transparent	glass	Unlimited size

Virginia Glass Products Corporation; Martinsville, Virginia

SGCC- 12	3/16	inch	tempered	transparent	glass	Unlimited size
SGCC- 14	1/4	inch	tempered	transparent	glass	Unlimited size
SGCC- 93	3/8	inch	tempered	transparent	glass	Unlimited size
SGCC- 94	1/2	inch	tempered	transparent	glass	Unlimited size
SGCC- 95	3/4	inch	tempered	transparent	glass	Unlimited size
SGCC- 92	7/32	inch	tempered	pattern	glass (shallow patterns)	Unlimited size

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 20

Visador Company; Jasper, Texas

SGCC-470	1/8	inch	leaded annealed transparent glass			
			4.21 by 9.66 inch diamonds	25"	by	67"
SGCC-509	1/8	inch	leaded annealed pattern glass (Cathedral)			
			3.56 by 8.84 inch diamonds	22"	by	72"
SGCC-510	3/16	inch	leaded annealed pattern glass (Flemish)			
			3.56 by 8.81 inch diamonds	22"	by	72"

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CLASSIFIED TEMPERED GLASS PATTERNS

1/8 inch shallow

(01) P-516	(02) Luxlite	(03) Factrolite	(09) Spray Lite	(32) Muralex
(34) Velvex	(36) Ribbed	(37) Aquatex	(38) Finetex	(39) Industrex
(82) Pattern 62	(83) Pointex	(86) Showerlite		

1/8 inch medium

(04) Rattan	(05) Cotswold	(06) Patchwork	(07) Burlap	(08) Smooth Rough
(11) Flemish	(31) Skytex	(33) Seashell	(35) Flax	(52) Pattern 73
(56) Syenite	(57) Pattern 229	(85) Flemish		

1/8 inch deep

(10) Autumn

5/32 inch shallow

(59) Luxlite	(60) Factrolite	(64) Spray Lite	(70) Muralex	(72) Velvex
(74) Ribbed	(75) Aquatex	(76) Finetex	(81) Pattern 6	

5/32 inch medium

(61) Cotswold	(62) Burlap	(63) Smooth Rough	(66) Flemish	(69) Skytex
(71) Seashell	(73) Flax	(77) Pattern 73	(78) Syenite	(79) Pattern 229
(80) Pattern 76				

5/32 inch deep

(65) Autumn	(67) Oceanic	(68) Roundel
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3/16 inch shallow

(50) Pattern 62	(51) P-516	(54) Shower lite
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3/16 inch medium

(58) Pattern 76

3/16 inch deep

(12) Oceanic	(13) Roundel	(41) Lozenge
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7/32 inch shallow

(14) Velvex	(15) Muralex	(16) Industrex	(17) Aquatex	(18) Pattern 100
(19) Pattern 6	(20) Pattern 62	(21) Spray Lite	(22) Burlap	(23) Factrolite
(24) Satinlite	(25) Luxlite	(26) J-3	(27) P-516	(28) Smooth Rough
(30) Cascade	(42) Pluralite	(44) Flax	(46) Skytex	(55) Textured Plate
(84) Chinchilla				

7/32 inch medium

(43) Seashell	(45) Beadex	(47) Syenite	(48) Flemish	(49) Textured Linex
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7/32 inch deep

(29) Lozenge	(53) Broad Lite
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CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

TEMPERED TRANSPARENT GLASS

1/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-598	Unlimited size
Anglass Industries, Inc.; San Fernando, California	SGCC-520	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-583	13" by 19"
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-415	Unlimited size
C-E Glass; Carson, California	SGCC-453	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-489	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-360	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC-251	Unlimited size
Downey Glass Company; Downey, California	SGCC-603	Unlimited size
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC-586	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC-341	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia	SGCC-297	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC-300	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC- 54	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-350	Unlimited size
Minex-Poland; Sandomierz, Poland	SGCC-634	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-903	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-187	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC-250	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC- 60	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC-295	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC- 59	Unlimited size
Safelite Industries; Wichita, Kansas	SGCC-225	Unlimited size
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC-286	Unlimited size

5/32 inch tempered transparent glass (32 ounce)

Doulton Tempered Glass, Ltd.; Bradford, England	SGCC-600	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC-396	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-545	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-932	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC-675	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC-679	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC-676	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC-680	Unlimited size
Romsit; Medias, Romania	SGCC-917	Unlimited size

3/16 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-220	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC- 28	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-584	18" by 24"
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-274	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-924	Unlimited size
C-E Glass; Carson, California	SGCC-410	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-245	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-330	30" by 39"
C-E Glass; Miami, Florida	SGCC- 76	Unlimited size
C-E Glass; Tampa, Florida	SGCC-385	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-336	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC-637	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC-209	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-900	Unlimited size

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

3/16 inch tempered transparent glass - continued

Doulton Tempered Glass, Ltd.; Bradford, England
 Downey Glass Company; Downey, California
 Downey Glass Company; Los Angeles, California
 Falconer Plate Glass Corporation; Falconer, New York
 Feather-lite Manufacturing Company; Malvern, Arkansas
 Ford Motor Company; Dearborn, Michigan
 Fourco Glass Company; Clarksburg, West Virginia
 Guardian Industries Corporation; Carleton, Michigan
 Guardian Industries Corporation; Fort Lauderdale, Florida
 Guardian Industries Corporation; Torrance, California
 Guardian Industries Corporation; Webster, Massachusetts
 Hamilton of Indiana, Inc.; Vincennes, Indiana
 LOF Glass, Inc.; Laurinburg, North Carolina
 Libbey-Owens-Ford Company; Rossford, Ohio
 Minex-Poland; Sandomierz, Poland
 Northwestern Industries, Inc.; Seattle, Washington
 Ohio Plate Glass Company; Lewisburg, Ohio
 PPG Industries, Inc.; Baltimore, Maryland
 PPG Industries, Inc.; Carlisle, Pennsylvania
 PPG Industries, Inc.; Chicago, Illinois
 PPG Industries, Inc.; Crestline, Ohio
 PPG Industries, Inc.; Dallas, Texas
 PPG Industries, Inc.; Ford City, Pennsylvania
 PPG Industries, Inc.; Fresno, California
 PPG Industries, Inc.; Miami, Florida
 PPG Industries, Inc.; Mt. Zion, Illinois
 Sun Valley Tempered Glass Company; Oxnard, California
 Tempered Glass Corporation; Tampa, Florida
 Tempglass, Inc.; Perrysburg, Ohio
 Tempglass Western, Inc.; Fremont, California
 Temp-Safe, Inc.; Edmond, Oklahoma
 Texas Tempered Glass Company; Houston, Texas
 Tuf-flex Glass, Inc.; Atlanta, Georgia
 Tuf-flex Glass, Inc.; Elmhurst, Illinois
 Tuf-flex Glass, Inc.; Irving, Texas
 Tuf-flex Glass, Inc.; Saddle Brook, New Jersey
 Tuf-flex Glass, Inc.; Union City, California
 Tyre Brothers Glass Company; Los Angeles, California
 Vidrierias De Llodio, S. A.; Alava, Spain
 Virginia Glass Products Corporation; Martinsville, Virginia

SGCC-700 Unlimited size
 SGCC-606 Unlimited size
 SGCC-630 Unlimited size
 SGCC-708 Unlimited size
 SGCC-610 Unlimited size
 SGCC-342 Unlimited size
 SGCC-291 Unlimited size
 SGCC-631 Unlimited size
 SGCC-633 Unlimited size
 SGCC-409 Unlimited size
 SGCC-755 Unlimited size
 SGCC- 56 Unlimited size
 SGCC-351 Unlimited size
 SGCC-386 Unlimited size
 SGCC-646 Unlimited size
 SGCC-479 Unlimited size
 SGCC-185 Unlimited size
 SGCC-454 Unlimited size
 SGCC-249 Unlimited size
 SGCC-266 Unlimited size
 SGCC-927 Unlimited size
 SGCC-400 Unlimited size
 SGCC- 61 Unlimited size
 SGCC- 64 Unlimited size
 SGCC-195 Unlimited size
 SGCC- 63 Unlimited size
 SGCC-642 Unlimited size
 SGCC-629 Unlimited size
 SGCC-592 Unlimited size
 SGCC-723 Unlimited size
 SGCC-440 Unlimited size
 SGCC-110 Unlimited size
 SGCC-320 Unlimited size
 SGCC-257 Unlimited size
 SGCC-921 Unlimited size
 SGCC-525 Unlimited size
 SGCC-490 Unlimited size
 SGCC-252 Unlimited size
 SGCC- 38 Unlimited size
 SGCC- 12 Unlimited size

7/32 inch tempered transparent glass

C-E Glass; Lancaster, Ohio; Slocum Street
 Guardian Industries Corporation; Torrance, California
 Ohio Plate Glass Company; Lewisburg, Ohio
 Romsit; Medias, Romania
 Vidrierias De Llodio, S. A.; Alava, Spain

SGCC-331 30" by 39"
 SGCC-425 Unlimited size
 SGCC-279 Unlimited size
 SGCC-910 Unlimited size
 SGCC- 37 Unlimited size

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

1/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC- 89	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC- 24	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-585	18" by 24"
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-615	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-108	Unlimited size
C-E Glass; Carson, California	SGCC-411	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-246	Unlimited size
C-E Glass; Miami, Florida	SGCC- 49	Unlimited size
C-E Glass; Tampa, Florida	SGCC- 47	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-361	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC-638	Unlimited size
Carolina Processed Glass, Inc.; Rock Hill, South Carolina	SGCC-673	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-157	Unlimited size
Doulton Tempered Glass, Ltd.; Bradford, England	SGCC-601	Unlimited size
Downey Glass Company; Downey, California	SGCC-609	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC-514	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-709	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC-397	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia	SGCC-293	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-131	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 40	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 43	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC-662	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC- 57	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-352	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 19	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-481	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-186	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-455	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC-382	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-267	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC-102	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC-402	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 70	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC- 73	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-194	Unlimited size
Sun Valley Tempered Glass Company; Oxnard, California	SGCC-643	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-337	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-593	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC-724	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-441	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC-137	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-321	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-229	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-390	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-298	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC-491	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-253	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 14	Unlimited size

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

5/16 inch tempered transparent glass

LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-373	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-464	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-692	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-693	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-694	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-695	Unlimited size

3/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC- 90	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-371	Unlimited size
C-E Glass; Carson, California	SGCC-412	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-345	Unlimited size
C-E Glass; Tampa, Florida	SGCC-889	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC-639	Unlimited size
Carolina Processed Glass, Inc.; Rock Hill, South Carolina	SGCC-674	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-181	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC-515	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-710	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-160	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 41	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 97	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC-471	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-127	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-374	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-449	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-500	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-474	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-647	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC-405	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 74	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-196	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-348	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-594	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC-725	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-532	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC-668	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-322	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-258	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-391	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-314	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC-482	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-254	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 93	Unlimited size

1/2 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC- 91	Unlimited size
C-E Glass; Carson, California	SGCC-413	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-346	Unlimited size
C-E Glass; Tampa, Florida	SGCC-896	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC-640	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-182	Unlimited size

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

1/2 inch tempered transparent glass - continued

Downey Glass Company; Los Angeles, California	SGCC-516	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-711	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-263	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 98	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-128	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-375	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-150	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-475	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-648	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC-403	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 75	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-200	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-338	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-595	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC-726	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-488	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC-669	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-323	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-270	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-392	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-315	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC-483	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-255	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 94	Unlimited size

5/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-544	Unlimited size
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3/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-547	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-712	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-151	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC-248	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 95	Unlimited size

7/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-444	Unlimited size
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TEMPERED PATTERN GLASS

1/8 inch tempered pattern glass (shallow patterns)

ASG Industries, Inc.; Greenland, Tennessee	SGCC-587	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-141	Unlimited size
C-E Glass; Carson, California	SGCC-452	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-904	Unlimited size
Downey Glass Company; Downey, California	SGCC-604	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-621	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-203	Unlimited size

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

1/8 inch tempered pattern glass (medium patterns)

Downey Glass Company; Downey, California

Northwestern Industries, Inc.; Seattle, Washington

Ohio Plate Glass Company; Lewisburg, Ohio

SGCC-605 Unlimited size

SGCC-907 Unlimited size

SGCC-654 Unlimited size

5/32 inch tempered pattern glass (shallow patterns)

Minex-Poland; Sandomierz, Poland

SGCC-635 Unlimited size

5/32 inch tempered pattern glass (medium patterns)

M. L. Burke Company; Cornwells Heights, Pennsylvania

Northwestern Industries, Inc.; Seattle, Washington

SGCC-659 Unlimited size

SGCC-901 Unlimited size

3/16 inch tempered pattern glass (shallow patterns)

C-E Glass; Carson, California

C-E Glass; Fullerton, California

Downey Glass Company; Downey, California

Ohio Plate Glass Company; Lewisburg, Ohio

SGCC-414 Unlimited size

SGCC-914 Unlimited size

SGCC-607 Unlimited size

SGCC-188 Unlimited size

3/16 inch tempered pattern glass (deep patterns)

Ohio Plate Glass Company; Lewisburg, Ohio

PPG Industries, Inc.; Crestline, Ohio

SGCC-328 Unlimited size

SGCC-446 Unlimited size

7/32 inch tempered pattern glass (shallow patterns)

ASG Industries, Inc.; Greenland, Tennessee

ASG Industries, Inc.; Kingsport, Tennessee

M. L. Burke Company; Cornwells Heights, Pennsylvania

C-E Glass; Atlanta, Georgia

C-E Glass; Carson, California

C-E Glass; Cinnaaminson, New Jersey

C-E Glass; Miami, Florida

C-E Glass; Tampa, Florida

C-E Glass; Warrenton, Missouri

Cal-Temp; Santa Fe Springs, California

Downey Glass Company; Downey, California

Downey Glass Company; Los Angeles, California

Guardian Industries Corporation; Fort Lauderdale, Florida

Guardian Industries Corporation; Torrance, California

Hamilton of Indiana, Inc.; Vincennes, Indiana

Northwestern Industries, Inc.; Seattle, Washington

Ohio Plate Glass Company; Lewisburg, Ohio

PPG Industries, Inc.; Baltimore, Maryland

PPG Industries, Inc.; Chicago, Illinois

PPG Industries, Inc.; Dallas, Texas

PPG Industries, Inc.; Miami, Florida

Sun Valley Tempered Glass Company; Oxnard, California

Tempered Glass Corporation; Tampa, Florida

Tempglass, Inc.; Perrysburg, Ohio

Tempglass Western, Inc.; Fremont, California

Tuf-flex Glass, Inc.; Irving, Texas

Tuf-flex Glass, Inc.; Union City, California

Tyre Brothers Glass Company; Los Angeles, California

Virginia Glass Products Corporation; Martinsville, Virginia

SGCC-588 Unlimited size

SGCC- 31 Unlimited size

SGCC-589 Unlimited size

SGCC-125 Unlimited size

SGCC-619 Unlimited size

SGCC-265 Unlimited size

SGCC-905 Unlimited size

SGCC-201 Unlimited size

SGCC-344 Unlimited size

SGCC-641 Unlimited size

SGCC-608 Unlimited size

SGCC-678 Unlimited size

SGCC-617 Unlimited size

SGCC-264 Unlimited size

SGCC-129 Unlimited size

SGCC-502 Unlimited size

SGCC-562 Unlimited size

SGCC-456 Unlimited size

SGCC-653 Unlimited size

SGCC-404 Unlimited size

SGCC-219 Unlimited size

SGCC-690 Unlimited size

SGCC-421 Unlimited size

SGCC-597 Unlimited size

SGCC-891 Unlimited size

SGCC-818 Unlimited size

SGCC-906 Unlimited size

SGCC-256 Unlimited size

SGCC- 92 Unlimited size

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

7/32 inch tempered pattern glass (medium patterns)
C-E Glass; Carson, California

SGCC-620 Unlimited size

LAMINATED TRANSPARENT GLASS

SS/SS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic) SGCC-450 Unlimited size

SS/DS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic) SGCC-451 Unlimited size

7/32 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee (0.015 inch plastic) SGCC- 27 Unlimited size

Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania
(0.015 inch plastic) SGCC-378 Unlimited size

Guardian Industries Corporation; Upper Sandusky, Ohio
(0.015 inch plastic) SGCC-458 Unlimited size

Texas Tempered Glass Company; Houston, Texas (0.030 inch plastic) SGCC-570 Unlimited size

1/4 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee (0.015 inch plastic) SGCC- 26 Unlimited size

Central Glass Company, Ltd.; Tokyo, Japan (0.030 inch plastic) SGCC-553 Unlimited size

Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania
(0.015 inch plastic) SGCC-379 Unlimited size

Cristales Inastillables De Mexico, S. A.; Mexico City, Mexico
(0.015 inch plastic) SGCC-658 Unlimited size

Guardian Industries Corporation; Upper Sandusky, Ohio
(0.015 inch plastic) SGCC-487 Unlimited size

Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic) SGCC- 82 Unlimited size

3/8 inch laminated transparent glass

Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania
(0.015 inch plastic) SGCC-380 Unlimited size

1/8:1/4 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee (0.015 inch plastic) SGCC-499 Unlimited size

1/2 inch laminated transparent glass

Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania
(0.015 inch plastic) SGCC-381 Unlimited size

Libbey-Owens-Ford Company; East Toledo, Ohio (0.030 inch plastic) SGCC-698 Unlimited size

TRANSPARENT WIRED GLASS

1/4 inch polished wired glass

ASG Industries, Inc.; Kingsport, Tennessee
(Pinstripe; 1/2 inch parallel) SGCC-683 Unlimited size

ASG Industries, Inc.; Kingsport, Tennessee (3/4 inch diamond) SGCC-632 Unlimited size

Central Glass Company, Ltd.; Tokyo, Japan (3/4 inch diamond mesh) SGCC-508 Unlimited size

Central Glass Company, Ltd.; Tokyo, Japan (1/2 inch square mesh) SGCC-543 Unlimited size

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

<u>PATTERN WIRED GLASS</u>				
<u>7/32 inch pattern wired glass</u>				
ASG Industries, Inc.; Kingsport, Tennessee (Pinstripe; 1/2 inch parallel) (Finetex)		SGCC-926	Unlimited size	
<u>SAFETY PLASTIC SHEET</u>				
<u>0.060 inch and greater thicknesses polycarbonate</u>				
Sheffield Plastics, Inc.; Sheffield, Massachusetts (extruded; smooth)		SGCC-359	Unlimited size	
<u>0.080 inch and greater thicknesses acrylic</u>				
Rotuba Extruders, Inc.; Linden, New Jersey (extruded; smooth)		SGCC-316	Unlimited size	
<u>0.080 inch through 0.125 inch acrylic</u>				
Flex-O-Glass, Inc.; Dixon, Illinois (extruded; smooth)		SGCC-118	Unlimited size	
Plaskolite, Inc.; Columbus, Ohio (extruded; smooth)		SGCC-152	Unlimited size	
Sheffield Plastics, Inc.; Sheffield, Massachusetts (extruded; smooth)		SGCC-173	Unlimited size	
<u>0.100 inch acrylic</u>				
Manchester Products Company; Chatsworth, California (extruded; smooth)		SGCC-567	Unlimited size	
<u>FLAT GLASS</u>				
<u>1/8 inch annealed transparent glass</u>				
Isador Company; Jasper, Texas 4.21 by 9.66 inch diamonds		SGCC-470	25"	by 67"
<u>1/8 inch annealed pattern glass</u>				
Isador Company; Jasper, Texas (Cathedral) 3.56 by 8.84 inch diamonds		SGCC-509	22"	by 72"
<u>1/16 inch annealed pattern glass</u>				
Isador Company; Jasper, Texas (Flemish) 3.56 by 8.81 inch diamonds		SGCC-510	22"	by 72"

SGCC LABEL REQUIREMENTS

The SGCC certification label must be permanently marked on each piece of safety glazing material or else it is not covered by the SGCC certification program. The typical labels reproduced in this certified products directory are the same size that you will find on each piece of safety glazing material.

The permanent label must contain the SGCC number, ANSI Z97.1-1975, the nominal thickness, and the letter U or L indicating certified size.

For labeling purposes, a dotted line shall separate those standards covered by the SGCC number from any other standards the licensee wishes to reference.

"After having successfully passed the appropriate tests, like products and materials produced in the same manner as samples submitted per test shall be legibly and permanently marked in one corner with ... the characters "ANSI Z97.1-1975 - "INDOOR USE ONLY" and shall be marked also with the manufacturer's distinctive mark or designation." Quoted from ANSI Z97.1-1975.

"Organic-coated glass materials shall be permanently marked on the organic coating with a label, including the phrase, "GLAZE THIS SIDE IN" to indicate to the installer, inspector, or user which side of the organic-coated glass should be exposed to the elements if there is a specific side that should be exposed." Quoted from ANSI Z97.1-1975.

The permanent label must contain identification of the plant in which the product was made and the name or trade mark of the participant. (The SGCC number does this by reference to this certified products directory.)

The permanent label must be affixed to certified products only at the time and place of manufacture.

The permanent label must be affixed only to safety glazing materials of the licensee's own manufacture, which are certified in the SGCC program.

The permanent label must not be sold, transferred or otherwise disposed of in any manner other than being affixed to the licensee's certified production.

The permanent label must not be affixed to any product from which certification has been withdrawn or which is produced with a process basically different from the one used when certification was obtained.

* * * * *

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

ASG INDUSTRIES, INC.
P. O. Box 88
Kingsport, Tennessee 37662


▲
▲
▲
TRU-TEMP
16 CFR 1201.CII
ANSI Z97.1 1975
1/4U SGCC-24
ASG 001

ANGLASS INDUSTRIES, INC.
12364 Gladstone Avenue
San Fernando, California 91342

TEMPERED
SAFETY GLASS

ANSI Z97.1-1975
SGCC-520 1/8U

ARTISTIC GLASS PRODUCTS COMPANY
P.O. Box 785
Quakertown, Pennsylvania 18951

 1-81-
ANSI-Z97.1-1975
16 CFR 1201 I & II
SGCC 583
A19 17B

M. L. BURKE COMPANY
33204 Western Avenue
Union City, California 94587

MLB TEMP
SAFETY TEMPERED
GLASS
ANSI-Z97.1-1975
SGCC-274 3/16U

C-E GLASS
825 Hylton Road
Pennsauken, New Jersey 08110

ARM-R-CLAD
 **GLASS**
SAFETY TEMPERED
ANSI Z97.1-1975 .187U
SGCC 410 NDB

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

CAL-TEMP; CALIFORNIA GLASS DISTRIBUTORS
9010 South Norwalk Boulevard
Santa Fe Springs, California 90670

CAL TEMP

TEMPERED SAFETY,
ANSI-Z 97.1-1975
3/16 U-SGCC-637

CANADIAN PITTSBURGH INDUSTRIES, LTD.
1299 20th Street, East
Owen Sound, Ontario, Canada



HERCULITE®K

TEMPERED TREMPÉ
CGSB 12-GP-1 DOT 165
ANSI Z97.1-1975
SGCC-209 3/16"U

CAROLINA PROCESSED GLASS, INC.
1900 Midland Street
Rock Hill, South Carolina 29730

C SAFETY
P TEMPERED 77
G ANSI Z97.1-1975
SGCC 673 1/4 U

CENTRAL GLASS COMPANY, LTD.
c/o Mitsui and Company, (U.S.A.), Inc.
200 Park Avenue
New York, New York 10017

CHROMALLOY-SAFETEE GLASS DIVISION
250 King Manor Drive
King of Prussia, Pennsylvania 19406

LAMINATED SAFETY GLASS
LAMILEX

CENTRAL
ANSI Z97.1-1975 1/4-U
SGCC-553

Tentative label
ANSI Z97.1-1975
SGCC-379 1/4U

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

CRISTALES INASTILLABLES DE MEXICO, S. A.
c/o Sentinel Enterprises, Inc.
2138 Biscayne Boulevard
Miami, Florida 33137



SAFETY SHEET GLASS
SGCC No. 658
NOM. THICK = 1/4 INCH.-U
ANSI Z97.1-1975

DOULTON TEMPERED GLASS, LTD.
Ripley Road
Bradford, West Yorkshire BD47TP
England



DOWNEY GLASS COMPANY
5631 Ferguson Drive
Los Angeles, California 90022



ful-temp

SGCC-603 .125U
ANSI-Z97.1 1975
16 CFR 1201 - 805

FALCONER PLATE GLASS CORPORATION
500 South Work Street
Falconer, New York 14733


FEATHER-LITE MANUFACTURING COMPANY
1210 East Maple Road
Troy, Michigan 48084

Tentative label
ANSI Z97.1-1975
SGCC-709 1/4U

SAFETY PANE
TEMPERED SAFETY GLASS
ANSI Z97.1-1975 SGCC-586 1/8U

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

FLEX-O-GLASS, INC.
1100 North Cicero Avenue
Chicago, Illinois 60651


FLEX - O - GLAZE™
SGCC - 118
ACRYLIC SAFETY GLAZING
ANSI Z97.1 - 1975 100 U
WARP BROS. CHGO. 60651

FORD MOTOR COMPANY GLASS DIVISION
300 Renaissance Center; P.O. Box 43343
Detroit, Michigan 48243


FORD TEMPERED
SAFETY GLASS
ANSI Z97.1-1975
SGCC-342 729
16CFR 1201.11
86
3/16 U

FOURCO GLASS COMPANY
P.O. Box 890
Bridgeport, West Virginia 26330


HEAT TEMPERED
GLASS 1/8 U
ANSI Z97.1-1975
SGCC-297

GUARDIAN INDUSTRIES CORPORATION
43043 West Nine Mile Road
Northville, Michigan 48167


GUARDIAN IND. CORP.
CARLETON, MICH. 48117
16 CFR-1201 I AND II
ANSI Z97.1-1975
TEMPERED SAFETY
CGSB 12-GP-1
SGCC-631 3/16 U

HAMILTON OF INDIANA, INC.
2000 Chestnut Street
Vincennes, Indiana 47591

TEMPER-TUF
HAMILTON OF INDIANA
ANSI Z97.1-1975 1/8U SGCC-54
TEMPERED SAFETY GLASS

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

LOF GLASS, INC.
P. O. Box 830
Laurinburg, North Carolina 28352

LIBBEY-OWENS-FORD COMPANY
811 Madison Avenue
Toledo, Ohio 43695



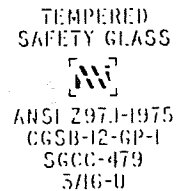
MANCHESTER PRODUCTS COMPANY
8966 Mason Avenue
Chatsworth, California 91311

MANCHESTER PRODUCTS CO.
ANSI-Z97.1 1975
100U SGCC 567

MINEX-POLAND
c/o M. L. Burke Company
33204 Western Avenue
Union City, California 94587

NORTHWESTERN INDUSTRIES, INC.
2501 West Commodore Way
Seattle, Washington 98199

TEMPERED SAFETY GLASS
MINEX-SANDOMIERZ
ANSI Z97.1-1975
16CFR 1201-I & II
SGCC 634 1/8U



EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

OHIO PLATE GLASS COMPANY
P. O. Box 671
Lewisburg, Ohio 45338

PPG INDUSTRIES, INC.
1000 RIDC Plaza
P. O. Box 2811
Pittsburgh, Pennsylvania 15230

SAFETY
TEMPERED
1/8"-U S GCC
187
OHIO
PLATE
ANSI Z-97.1-1975

PPG **HERCULITE K**
ANSI Z-97.1-1975 1/8"-U
TEMPERED SAFETY GLASS
SGCC-295 15976

PLASKOLITE, INC.
1770 Joyce Avenue
Columbus, Ohio 43219

plaskolite
ACRYLIC SAFETY GLAZING
ANSI Z97.1-1975
SGCC-152 1000

ROMSIT
c/o Vitco, Inc.
31 Warren Place
Mount Vernon, New York 10550


ROTUBA EXTRUDERS, INC.
1401 Park Avenue South
Linden, New Jersey 07036

Tentative label
ANSI Z97.1-1975
SGCC-910 7/32U

ROTUBAGLAZ®
ACRYLIC SAFETY GLAZING
ANSI Z97.1-1975
SGCC-316 .080U

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

SAFELITE INDUSTRIES
P. O. Box 1879
Wichita, Kansas 67201

SOLID TEMPERED
SAFE  LITE
ANSI Z97.1-1975
1/8U SGCC 225

SHEFFIELD PLASTICS, INC.
Salisbury Road
Sheffield, Massachusetts 01257

ACRY-PANE
ACRYLIC SAFETY GLAZING
ANSI Z 97.1-1975
SGCC-173 .080U

SUN VALLEY TEMPERED GLASS COMPANY
906 Factory Lane
Oxnard, California 93032

SUN VALLEY
TEMPERED
SGCC 843 1/4 U
7-77
AM-TUF
ANSI Z97.1 1975

TEMPERED GLASS CORPORATION
6900 Adamo Drive
Tampa, Florida 33619

TEMCO
SGCC-338 .500U
SGCC-834
16 CFR 1201-II
ANSI Z97.1 1975

TEMPGLASS, INC.
Willis Day Industrial Park
291 "M" Street
Perrysburg, Ohio 43551

TEMPGLASS, INC.
16 CFR 1201 CH
ANSI Z97.1-1975
SGCC 594
3/8"-U (1)

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

TEMPGLASS WESTERN, INC.

48999 Kato Road
Fremont, California 94538

TEMP-SAFE, INC.

3000 South Kelly
Edmond, Oklahoma 73034

Tentative label

ANSI Z97.1-1975

SGCC-723 3/16U

TEMP-SAFE

TEMPERED

SAFETY GLASS

ANSI Z97.1-1975

SGCC-440-3/16 U

TEXAS TEMPERED GLASS COMPANY

1331 West Belt Drive
Houston, Texas 77043

ANSI Z97.1—1975—.250U
TG SGCC-137
TEXAS TEMPERED GLASS CO.
HOUSTON, TEXAS

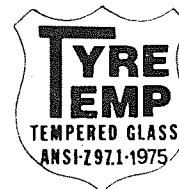
TUF-FLEX GLASS, INC.

811 Madison Avenue
Toledo, Ohio 43695

TYRE BROTHERS GLASS COMPANY

3008 South San Pedro Street
Los Angeles, California 90051

Tuf-flex Glass Inc.
TEMPERED SAFETY GLASS
1/4"-U ANSI Z97.1-1975
SGCC-229 16 CFR 1201-I, II
868



SGCC-253 .250U

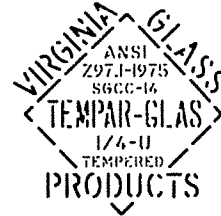
EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

VIDRIERIAS DE LLODIO, S.A.
c/o Seaply Glass Company
P.O. Box 557
Greenwich, Connecticut 06830

VIRGINIA GLASS PRODUCTS CORPORATION
P. O. Box 5431
Martinsville, Virginia 24112



3/16" U SGCC-38
tempered glass
ANSI Z 97.1-1.975



VISADOR COMPANY
940 Visador Road
Jasper, Texas 75951

Safe-T-Leaded
ANSI Z97.1 - 1975
SGCC 510 3/16 L
VISADOR

SGCC PARTICIPANTS WITHOUT A CERTIFIED PRODUCT

Dr. George L. Graf, Jr.
E. I. du Pont de Nemours and Company
Plastic Products and Resins Department
Chestnut Run
Wilmington, Delaware 19898

Mr. Caryl E. Twitchell
Building 230 - BC8
3M Center
3M Company
St. Paul, Minnesota 55101

Dr. Martin I. Cohen
Standard Packaging Corporation
National Metallizing Division
Cranbury, New Jersey 08512

Mr. Henry S. Byrne
Mobay Chemical Company
Penn Lincoln Parkway West
Pittsburgh, Pennsylvania 15205

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PROCEDURAL GUIDE
SAFETY GLAZING CERTIFICATION COUNCIL
CERTIFICATION PROGRAM FOR
SAFETY GLAZING MATERIALS USED IN BUILDINGS

FORWARD

Acceptance of a certified product containing safety glazing materials comes with the conviction that such certification assures a high level of safety and quality and that the integrity of the identifying mark or certification label is being reliably maintained by a competent certifying agency.

The provisions of American National Standard Z97.1 provide a sound technical basis for the required high level of safety. With the addition of independent administration plus periodic routine sampling and product evaluation, a program of product certification is developed in accordance with the accepted American National Standards as contained in American National Standard Z34.1. The Certification Program described here is predicated upon the concept of independent and impartial administration of the certification procedures which are incorporated in the SGCC license agreement.

To insure administration of the Certification Program in a uniform and equitable manner, this Procedural Guide has been prepared for the information and guidance of the participants.

It should be noted that the *SGCC License Agreement* is the governing document for operation of the Certification Program. This Procedural Guide, which is *not* an extension of that document, serves merely to describe the administrative procedure and routine operation of the Certification Program.

GENERAL INFORMATION

The Certification Concept

The SGCC Certification Program is based on the conviction that no standard of safety or quality is good without the *continuous adherence of the participants* to that standard.

To buyers, specifiers, code officials and users, the SGCC certification label offers the manufacturer's *assurance* that his safety glazing material has been *produced in conformance* to American National Standard Z97.1 covering safety glazing materials used in buildings.

Many state laws, municipal ordinances and building codes require that all glazing installed in certain pre-defined *hazardous* locations comply with the ANSI standard. This standard, promulgated by the American National Standards Institute, *requires* certification in accordance with ANSI Z34.1 prior to labeling safety glazing materials as conforming to ANSI Z97.1.

Who Can Participate?

Every manufacturer of safety glazing materials is eligible, *on a voluntary basis*, to participate.

Who Conducts the Program?

The Safety Glazing Certification Council, a non-profit corporation, is the sponsor of this certification program. SGCC supervises the certification program under which the Administrator periodically checks and reports compliance of the manufacturers of products having the SGCC certification label with the requirements of ANSI Z97.1.

Administration

Certification Services Corporation (CSC), is the independent *Administrator* of the Certification Program. CSC maintains the SGCC Office of Certification and handles the routine day to day business. All transactions are done in the name of SGCC.

How Can You Become a Participant?

The following must be accomplished before SGCC can certify an item of safety glazing material:

- a] The manufacturer signs two copies of the SGCC License Agreement (including notarization of the Affidavit, Appendix A) and sends these to SGCC. SGCC will countersign both copies and return one to the manufacturer.
- b] The manufacturer sends to SGCC one copy of a valid test report from an official SGCC-recognized prototype testing laboratory indicating full and complete compliance with the Specifications, namely ANSI Z97.1. (This is the "initial" or "prototype" testing and the sample is furnished by the manufacturer directly to any one of the SGCC-recognized independent commercial prototype testing laboratories, which the manufacturer selects.)
- c] The manufacturer sends to SGCC the six-month certification fee *for each item which is to be certified*.

After receipt of *all* of the above items, SGCC sends to the participant a Notice of Product Certification which includes a SGCC Certification Number. This number *must* be incorporated into the permanent label to be affixed on each piece of certified safety glazing material. The certified item will then be listed in the next published Certified Products Directory.

HOW THE CERTIFICATION PROGRAM WORKS

The *American National Standards Institute* sets safety standards and safety glazing materials *must meet or exceed* applicable ANSI standards before they can be certified by SGCC. Specifications for safety glazing materials used in buildings are developed and reviewed at least every five years by ANSI.

SGCC-Recognized Independent Prototype Testing Laboratories conduct all tests. All laboratories, whose test reports are utilized by this Certification Program, shall be approved by the SGCC Certification Committee. Initial or prototype tests are performed at the testing laboratory selected by the participant. Routine evaluation samples are tested by the testing laboratory selected by the Administrator.

Administrator Authorizes Certification

As sole judge of compliance with applicable standards, the Administrator authorizes a product which has been approved to be listed in the Certified Products Directory.

Participants Label Safety Glazing Material within the limits of the product size tested. If 34 by 76 inches is the initial or prototype test size, then certification is extended to all sizes and the label contains a letter U, designating such unlimited size. The letter L, contained within the label, denotes that certification is limited to the width and length of the initial or prototype test size.

Products Listed in Certified Products Directory

Approved products are listed in the Certified Products Directory, which is published at least every six months. It is sent to door, sash and building products manufacturers, glazing contractors, home builders, architects, regulatory agencies and code-making groups, etc. Directory listings contain the participants name, plant location, product description and a copy of the actual label that is *permanently* marked upon each piece of certified safety glazing material.

The *Administrator Samples Certified Glazing Material* from the participant's inventory once every six months.

An *Approved Testing Laboratory Determines Compliance* of these samples with the Specifications. Tests are made either at the place of manufacture or at the laboratory selected by the Administrator from the approved list. Results of each test are mailed promptly to the participant by the Administrator.

COMPLIANCE SAFEGUARDS

How is Compliance Assured?

Any certified product found in the course of routine sampling and evaluation not to be in compliance with the Specifications, is subject to having certification removed. The participant is given a 30-day grace period in which to demonstrate to the satisfaction of the Administrator that his product is in compliance. If he does not, certification is *automatically terminated* at the end of the 30-day period.

Challenging a Certified Product.

Complaints of non-compliance from any source will be investigated promptly by SGCC upon receipt of the complaint in writing along with an appropriate surety deposit. A minimum surety deposit of \$1,000 will be required for each complaint of non-compliance. The surety deposit will be assessed at the rate of \$250 per man day *plus* the reasonable costs of travel and the maintenance entailed in resolving such incidents. Refunds of part or all of the surety deposit will be made when applicable. All costs involved will be paid from the complainant's surety deposit, *unless* the investigation proves non-compliance, *in which case all costs will be borne by the participant found to be in non-compliance.*

Withdrawal of Certified Product

Any product which has been certified may be voluntarily withdrawn from the Certification Program by the participant at any time.

COSTS

What Does The Program Cost?

The participant pays all projected fees to SGCC on a six-month basis, in advance. A participant is invoiced for each item that is certified and listed separately in the Certified Products Directory. The invoice will include the fees for future routine evaluation testing.

Initial certification for each item will be for a period of six months. However, the next invoice to a participant will have the fees prorated to the nearest whole month in such a manner that participation in the Certification Program will be on a January 1 to July 1 and July 1 to January 1 basis.

Program Costs:

\$385 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant.

\$45 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent item at the same plant.

\$550 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant for the composite program.

\$70 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent item at the same plant for the composite program.

CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

Licensee Agreement

This agreement, incorporating independent program administration and routine, periodic, independent sampling and evaluation, governs the relationship between SGCC and the participant.

Future Amendments or Revisions to the License Agreement will be recommended by the SGCC Certification Committee and enacted by the SGCC Board of Directors.

Effective Date, Duration and Termination

The License Agreement becomes effective on the date of its execution; has an initial duration of six months (adjustable to a January 1 to July 1 or a July 1 to January 1 basis), and is automatically renewed for successive, additional periods of six months, unless either party gives notice at least sixty days prior to date of expiration that cancellation is requested or unless revoked by SGCC for causes set forth in the document.

Upon proper execution and acceptance by SGCC the *Preissued Certification Number Bond* informs a participant of the exact mark of an item to be certified in the future. Thus he can purchase the proper marking equipment before the item is actually certified. If the participant marks this number upon production prior to actual certification the bond is forfeited to SGCC.

Upon proper execution and acceptance by SGCC the *Test Release Bond* permits the continuation of certification of an item even though the production facilities are shut down. If the participant does not notify SGCC within one week of the resumption of production the bond is forfeited to SGCC.

Administrative Service Agreement.

This agreement, entered into by SGCC and Certification Services Corporation, governs the relationship between SGCC and CSC, the independent Administrator. In general, it provides that the Administrator:

- a) samples certified products routinely
- b) has the right to witness any and all testing
- c) reviews all test reports in order to determine compliance of the certified product with the Specifications
- d) inspects and approves all in-plant and Test Laboratory test facilities for use in this Certification Program (Test Laboratories are "recognized" or approved by the SGCC Certification Committee)
- e) publishes and mails the SGCC Certified Products Directory on or about each January 1 and July 1

- f) handles all routine clerical duties of SGCC with respect to certification matters
- g) acts as SGCC treasurer, invoicing participants, maintaining a bank account and dispersing funds (fiscal reports are made to the SGCC Certification Committee)
- h) furnishes all testing except for prototype tests
- i) attends all scheduled meetings of the SGCC Certification Committee and
- j) in all of its actions acts in the name of SGCC.

Procedural Guide

This guide outlines program procedures in accordance with the provisions of the License Agreement and the Administration Service Agreement, for the guidance of those concerned with the procedural details of the Certification Program's operation. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of participants and the preservation of the integrity of the Certification Program.

Certified Products Directory

This directory is the one document and publication that is normally in the public's eye and contains a listing of the certified safety glazing materials of each participant.

Certification Label

This Certification Mark is permanently affixed to each piece of certified safety glazing material by the participant. It contains a code that refers to the listing in the Certified Products Directory. The listing then provides a complete product description including the company name, plant location, etc.

PROGRAM RESPONSIBILITY

The *SGCC Board of Directors* has overall responsibility for the well being and acceptance of the Certification Program by the industry, building officials and the public. It also bears legal corporate responsibility.

The *SGCC Certification Committee* has the responsibility for the general procedure and policy pertaining to operation of the Certification Program. As a part thereof, it:

- a] establishes certification "guidelines"
- b] determines the applicability of the Specifications in a specific situation where a question is raised by a participant or the Administrator
- c] approves Test Laboratories
- d] determines which of the Specifications are to be designated effective for the purposes of product certification and the date or dates on which they become effective
- e] recommends to the SGCC Board of Directors changes to be made in the License Agreement.

COMMUNICATIONS

In all matters concerning the administration and implementation of the SGCC certification program, correspondence may be directed to any of the following:

SGCC Board of Directors
Mr. Richard L. Morrison, Chairman
Ford Motor Company Glass Division
300 Renaissance Center
P. O. Box 43343
Detroit, Michigan 48243

Telephone 313-568-4184

SGCC
Mr. Robert A. Nance, P. E.
Administrative Manager
1640 West 32 Place
Hialeah, Florida 33012

Telephone 305-558-1352

SGCC Certification Committee
Mr. Irvin D. Fintel, Chairman
Tempglass, Inc.
Willis Day Industrial Park
291 "M" Street
Perrysburg, Ohio 43551

Telephone 419-666-2000

SGCC
Ms. Nancy W. Johnson
Administrative Assistant
1640 West 32 Place
Hialeah, Florida 33012

Telephone 305-558-1352

SGCC APPROVED TESTING LABORATORIES

Bowser-Morner Testing Laboratories, Inc.
420 Davis Avenue; Box 51
Dayton, Ohio 45401
Attention: Mr. Robert J. Wening
Telephone 513-253-8805

Electrical Testing Laboratories, Inc.
Route 11 Industrial Park
Cortland, New York 13045
Attention: Mr. Claude Robb
Telephone 212-288-2600

Electrical Testing Laboratories, Inc.
Route 11 Industrial Park
Cortland, New York 13045
Attention: Mr. Claude F. Robb
Telephone 607-753-6711

Inspection and Research Laboratories
1313 North Miller; Suite J
Anaheim, California 92806
Attention: Mr. W. Bradford Smith
Telephone 714-993-6020

Miami Testing Laboratory, Inc.
1640 West 32 Place
Hialeah, Florida 33012
Attention: Mr. James W. Bailey
Telephone 305-822-1141

Patzig Testing Laboratories Company, Inc.
3922 Delaware Avenue
Des Moines, Iowa 50313
Attention: Mr. Byron A. Marks
Telephone 515-266-5101

Southwestern Laboratories
2900 Cullen Street
Fort Worth, Texas 76101
Attention: Mr. Wayne Tessener
Telephone 817-332-5181

Twin City Testing and
Engineering Laboratory, Inc.
662 Cromwell Avenue
St. Paul, Minnesota 55114
Attention: Mr. Ward Blandin
Telephone 612-645-3601

* * * * *

CERTIFICATION GUIDELINES AND INTERPRETATIONS

For guidance in certifying safety glazing materials the SGCC Certification Committee has adopted the following:

GENERAL

G.1

Participation in the certification program will be on a January 1 to July 1 and July 1 to January 1 basis. Charges will be prorated to the nearest whole month based on the date of approval of certification.

G.2

Tests for initial compliance of safety glazing materials to ANSI Z97.1-1975 will be accepted from any testing laboratory approved by the SGCC certification committee.

G.3

Paragraph (1) Section 4.1.3 of ANSI Z97.1-1975 is intended to apply to laminated, wired and organic coated glass only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material.

G.4

For insulating glass units to be considered safety glazing material, each light in the construction must be of safety glazing material.

G.5

The SGCC item number when used as part of a permanent label designates the name of the licensee (participant) and also the location of the manufacturing plant since the Certified Products Directory which lists the item number and pertinent data is published twice a year.

G.6

a) All test specimens except for prototype samples, must be marked with the correct SGCC permanent label prior to testing in order to be considered a valid sample. The administrator shall construe the absence of a correct permanent label as a failure to comply with the Specifications. In such cases of noncompliance, Sections a,c, and e of G.11 shall be followed.

b) The laboratory shall verify that the label has the correct SGCC number, designation of the ANSI standard, nominal thickness, and certified size designation (U or L).

For labeling purposes, a dotted line shall separate those standards covered by the SGCC number from any other standards the licensee wishes to reference.

c) The testing laboratory is to advise the administrator of any specimen that does not in fact bear the correct SGCC permanent label and will be instructed by the administrator not to test but hold the sample.

d) The administrator will inform the participant of the situation and direct (by letter) the testing laboratory to commence testing no later than 30 days hence. Until that time the testing laboratory is instructed to make these specimens available to the participant at their convenience (the specimens are to remain at the testing laboratory) in order that the participant may point out or show them that in fact the SGCC permanent label is correct or agree that in fact the correct SGCC permanent label is not present. (In cases of any dispute between the participant and the testing laboratory the decision of the administrator shall be final.) The participant shall not mark specimens after receipt at the testing laboratory.

e) As of January 1, 1978 the SGCC permanent label must contain ANSI Z97.1-1975 in order to be considered a correct permanent label for purposes of Guideline G.6.

f) For exterior plastics the SGCC permanent label must contain ANSI Z97.1-1975 (a). (See Guideline P.E.1.)

G.7

Safety glazing materials for which certification is requested for indoor use only shall be subjected to the provisions of section 4.1 (impact tests) and 4.5 (aging tests) of ANSI Z97.1-1975 irrespective of the composition or construction of the glazing material. Like products and materials produced in the same manner as samples submitted for test shall be legibly and permanently marked in one corner with the words "Indoor Use Only" and the SGCC identification number.

G.8

After initial compliance with a sample size as stated in Table 1, testing of other sizes which represent the sizes manufactured may be allowed, provided however that all sizes produced up to the size provided by Table 1, ANSI Z97.1-1975 are exposed to selection for testing.

G.9

Specimen sizes up to 34 inches by 77 inches shall be valid samples when independently obtained by the administrator for purposes of routine evaluation.

G.10

In cases where the administrator samples and identifies specimens for routine evaluation on the participant's premises or requests participant's samples when none are available at the time of sampling:

a) The participant be permitted 6 weeks in which to effect delivery of said specimens to the administrator's designated testing laboratory.

b) Failure to act as specified above shall be construed by the administrator as failure of the said specimens to comply with the Specifications and the administrator shall act as provided for in License Agreement A.6.

G.11

In cases where a routine evaluation sample fails to comply with the Specifications:

a) Written notice shall be sent to the participant by the administrator that within 30 days the participant must submit a retest sample to the testing laboratory designated by the administrator.

Certification shall be removed if the sample is not received within the allotted 30 days or if the sample submitted fails to comply with the Specifications.

b) Within 3 months the administrator shall obtain an additional random sample for evaluation (in addition to the routine evaluation sample obtained twice a year). The administrator shall be certain that this additional sample is of recent production.

c) At the option of the administrator, specimens submitted under (a) above shall be either prototype size and pattern or identical to those previously sampled and of recent production.

d) Certification shall be removed if the additional random sample obtained in (b) above fails to comply with the Specifications.

e) All costs related to G.11 are to be borne by the participant.

G.12

If a participant who manufactures a certified product outside the 48 contiguous States feels that in a particular instance that he will be unable to act as provided for in paragraph a) of SGCC Guideline G. 11, he should notify the administrator. The administrator will then contact the Chairman of the Certification Committee for a decision as to what action is to be taken.

G.13

In cases where a certified item is produced infrequently or in small quantities so as to make it difficult for the administrator to obtain routine evaluation samples, the participant shall notify the administrator at least two weeks in advance of any production of such item.

G.14

The administrator shall remove certification from all of any participant's products for failure to pay any monies due to SGCC within 30 days of invoice date. (Reference License Agreement A.2, A.12 and B.6.)

G.15

In the situation where a participant desires to recertify a product that previously had certification removed because of failure to comply with the Specifications (label and thickness tolerances excepted), the product shall be routinely sampled four times during the first year. The costs involved shall be paid by the participant.

G.16

The nominal thickness designations in SGCC authorized permanent labels for safety glazing materials may be shown in metric units. The thickness will be expressed in millimeters, limited to two decimal places, and will have the suffix "mm".

G.17

All safety glazing materials that are not symmetrical from surface to surface, shall be impacted two specimens on one side and two specimens on the other side.

G.18

Certified and permanently labeled safety glazing materials such as laminated glass, wired glass, rigid plastic or organic coated glass may be cut into smaller pieces by a distributor or installer after manufacture and it is not practical for each such smaller piece to bear a manufacturer's permanent label when finally installed in a building. When this is the case, then the distributor or installer shall apply a permanent label to each piece, which states his name and certifies that he cut the piece from material that was properly labeled in accordance with the requirements of SGCC.

For the purpose of this guideline, a permanent label is defined as one that will remain permanently legible and would be destroyed in attempts to remove it from the product.

G.19

The semi-annual invoicing date for certification fees shall be April 1 and October 1 of each year and the administrator is instructed to take those steps necessary to remove certification from participants for failure of payment prior to closing date of the certified products directory.

G.20

For certification purposes a panel of glazing material composed of multiple components (such as leaded glass) may be tested and interpreted as a unit.

G.21

A preissued SGCC certification number shall be issued by the administrator upon receipt of a properly executed license agreement and a properly executed bond form in the amount of \$10,000. The condition of the bond is such that if the participant does not label any safety glazing material with the preissued certification number prior to formal certification then the bond shall be void.

G.22

In the case of wired glass, plastics and organic coated glass certification of a patterned product may be extended to cover other patterns provided:

a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.

b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1975 for each alternate pattern proposed.

c) The certification committee is provided with a 6 by 6 inch sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

After admission under blanket certification covering patterned products, any such patterns available may be selected by the administrator for routine sampling and testing.

In the case where a routine evaluation sample covered under a blanket certification fails to comply with the Specifications, the situation requires that that particular product be submitted for the retest sample required by the Guideline G.11a and also that that particular product be sampled by the administrator for the additional sample required by Guideline G.11b.

G.23

There may be instances when a production facility is temporarily inoperative. This could be caused by, but not limited to, equipment repair or replacement, labor difficulties, energy or material shortages or economic considerations. As a consequence, samples for routine testing may not be available for long periods. The participant may desire to retain certification during the shutdown period. This shall be done as follows:

a) Prior to or within 2 weeks, after the shutdown the participant shall inform the SGCC administrator by registered mail.

b) The SGCC administrator will immediately supply the participant with test release bond forms for submission by the participant.

c) Within 2 weeks after receipt of the bond forms, the participant shall submit them to the SGCC administrator. A separate bond shall be submitted for each certified product affected.

d) During the period covered by the bond the participant shall retain certification, contingent upon payment of normal certification fees and meeting all other participant obligations. Bonds will terminate 90 days after application but may be renewed by the participant any number of times. Renewal is an obligation of the participant and requires all steps listed herein.

e) Within one week after re-activation of the production facility the participant shall 1) notify the SGCC administrator by registered mail and 2) submit samples from the first weeks production to an SGCC approved laboratory for testing. In cases where more than one certified product is produced with the same equipment, samples of each must be furnished for testing within the first month. These will be considered as the routine samples for retesting for the six months period during which they are submitted.

f) Failure by the participant to comply with any of the preceding shall be the basis for removal of certification from the affected products.

G.24

When a participant's production equipment will not produce a size of 34 by 76 inches and the participant wishes to certify a) a size whose smaller dimension exceeds 34 inches, material shall be tested whose smaller dimension is 34 inches or b) a size whose larger dimension exceeds 76 inches, material shall be tested whose larger dimension is 76 inches.

G.25

When a participant specifically and voluntarily desires to use an SGCC permanent label on their product that denotes compliance with ANSI Z97.1-1966, ANSI Z97.1-1972 and ANSI Z97.1-1975 or combination thereof, that they notify SGCC in writing of the certified item that they desire to so mark. SGCC will, at the request of the participant, conduct compliance tests to ANSI Z97.1-1966, ANSI Z97.1-1972 and ANSI Z97.1-1975 or combination thereof. A single set of four test specimens will be impacted to determine impact test requirements of all standards. Upon successful completion of compliance tests the safety glazing materials are permanently labeled and listed in the SGCC certified products directory as having met the requirements of 1966, 1972 and 1975 versions or combination thereof of the ANSI Z97.1 standard. Any costs involved shall be paid by the participant.

G.26

Any label that can be removed intact shall not be considered permanent and is not acceptable to SGCC.

G.27

A licensee, by executing a supplementary license agreement, can elect to be in both 16 CFR 1201 and ANSI Z97.1-1975 programs under one SGCC number provided the licensee submits four specimens to be impact tested to ANSI Z97.1-1975 and one specimen to be impact tested to 16 CFR 1201 (all architectural safety glazing materials that are not symmetrical from surface to surface, shall be impacted one specimen on one side and one specimen on the other side for 16 CFR 1201). If any one specimen of the composite sample fails, the entire composite sample will be considered to have failed to comply with both specifications.

G.28

The administrator shall construe noncompliance with thickness tolerances as a failure to comply with the Specifications. In such cases of non compliance, Sections a,c, and e of G. 11 shall be followed.

G.29

For the purposes of certification, the thickness requirements of Federal Specification DD-G-451D shall apply.

G.30

For certification purposes, the minimum thickness shall be 0.092 and the maximum thickness shall be 0.108 inches for 0.100 inch glass.

TEMPERED TRANSPARENT GLASS

T.1

Certification of either flat glass or patterned glass will not cover the other except as noted in Guideline T.2. (Flat glass designates ground and polished plate, float and sheet glass.)

T.2

Polished plate glass and the rough plate glass blank from which it is produced will be considered to be of equal nominal thickness. Certification of tempered flat glass will therefore be interpreted as including tempered rough plate blank.

T.3

Certification of regular tempered glass will also cover tinted, heat absorbing and coated glasses of the same nominal thickness. Glasses of the same nominal thickness with a ceramic material applied as a continuous or partial coating to one or more surfaces prior to tempering are also covered.

T.4

In cases where certified tempered glass is normally not available for sampling, the participant may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal production and these will be accepted by the administrator if other samples are not available. Otherwise, when production samples are not available the administrator shall notify the participant to submit prototype size samples to the administrator within six weeks.

T.5

Certification of any nominal thickness of tempered safety plate, float or sheet glass will also cover the other two types. ANSI Z97.1 does not require the permanent label on tempered safety glass to specify which type of glass is used. Nor is it required that the test specimens be identified in this regard.

T.6

Prototype test shall be conducted on bent specimens sampled from normal production run. The specimen size shall have a surface area of at least 50 percent of the maximum size for which certification is desired. Routine tests may be performed on bent specimens or flat specimens fabricated using the same tempering furnace. The test apparatus shall be modified to clamp the vertical straight edges and to support the concave side of the curved edges. Impact shall be on the convex surface.

TEMPERED PATTERN GLASS

TP.1

For purposes of certification, the nominal thickness of patterned, figured, or rough rolled glass are the common fractions found in DD-G-451D. The permanent label must contain this fraction or a metric or decimal dimension within the tolerance of this thickness as published in DD-G-451D.

The patterns in each thickness will be classified as to the ratio of minimum to maximum thickness as follows:

<i>Pattern depth class</i>	<i>Ratio</i>
Shallow pattern glass	0.90 or above
Medium pattern glass	0.80 to 0.89
Deep pattern glass	0.79 or below

Certification will be by nominal thickness and pattern depth class. Any pattern in a certified thickness and pattern depth class is certified.

New or unlisted patterns must be submitted to the pattern subcommittee for classification and file, prior to certification. After measurement, the new pattern will be assigned to a pattern depth class.

In the case of 5/32 inch tempered pattern glass refer to DD-G-1403B because this thickness is not included in DD-G-451D.

Certification of deep also covers medium and shallow patterns of the same nominal thickness.

Certification of medium also covers shallow patterns of the same nominal thickness.

TP.2

The maximum thickness shall be recorded when measuring the thickness of pattern glass.

TP.3

For tempered pattern glass, one specimen must be weighed and weight of ten square inches determined from the weight, width and height of that specimen to use for test purposes.

LAMINATED GLASS

L.1

Certification of regular laminated glass will also cover tinted, heat absorbing and coated glasses, both flat and bent of the same nominal thickness.

L.2

In cases where certified laminated glass is normally not available for sampling the participant may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal

production and these will be accepted by the administrator if other samples are not available. Otherwise, when production samples are not available the administrator shall notify the participant to submit prototype size samples to the administrator within six weeks.

L.3

Certification of 7/32 inch laminated glass also covers SS/DS and vice versa.

L.4

When a laminated glass is certified, other laminated glasses having the same thickness or thicknesses of glass and a greater thickness of plastic interlayer will be considered to be of equal nominal thickness and to be included in the certification.

L.5

Laminated safety glass need not be identified by type of base glass.

L.6

Thickness of the plastic interlayer shall be measured by the SGCC standard method.

L.7

For certification purposes the following thickness tolerances shall be used: Thickness tolerance shall apply only to the overall nominal thickness. The plus tolerance shall be the sum of all of the individual plus tolerances of each layer of the laminate. The minus tolerance shall be the sum of all of the individual minus tolerances of each layer of the laminate. Polyurethane interlayer shall have a thickness tolerance of plus or minus 0.015 inches.

The tolerance of the polyvinylbutyral (PVB) shall be based on the nominal thickness of the interlayer with a plus tolerance of 0.002 and a minus tolerance of 0.004 inches.

WIRED GLASS

W.1

Certification of one polished wired glass may be applied to other polished wired glasses provided:

a) The glass thickness of the candidate glass is nominally equal to the thickness of the glass that is certified.

b) The wire diameter of the candidate glass is at least as great as the wire diameter in the glass that is certified.

c) The spacing of the wires in the candidate glass is no greater than the spacing of the wires in the glass that is certified.

d) The certification committee has been presented with a copy of the results of a test indicating that compliance of the candidate glass with the requirements of ANSI Z97.1-1975 impact testing has been made.

After admission under the blanket certification covering wired glasses, all wired glasses so certified must be exposed to random sampling at each examination although only one will probably be selected for testing.

PLASTICS - GENERAL

P.1

Certification of one tint or color of rigid plastic will also cover other tints, colors, flat configurations or bent and formed configurations.

P.2

For certifying all plastics covering a range of thicknesses, prototype impact tests are required of the minimum thickness and also of the maximum thickness (except that 0.250 inch thickness would be tested if the maximum thickness exceeds 0.250 inches). Only one certification number will be issued and shall be marked upon all thicknesses. Routine re-evaluation samples are to be selected by the administrator from any of the certified thicknesses.

P.3

The following thickness tolerances shall be used for certification purposes:

Outdoor use plastic materials Class 1. Cast acrylic. (Including continuously cast sheet): As specified in Federal Specification LP-391, latest issue.

Outdoor use plastic materials Class 2. Extruded acrylic: As specified in Federal Specification LP-507, latest issue.

Outdoor use plastic materials Class 3. Extruded polycarbonate: As specified in Federal Specification P-46144, latest issue.

Indoor use plastic materials Class 1: Plus or minus 10 percent of nominal thickness.

P.4
The maximum thickness shall be recorded when measuring the thickness of patterned plastics.

P.5
Certification of either smooth plastic or patterned plastic will not cover the other.

PLASTICS – EXTERIOR USE

PE. 1
Sheet plastics for exterior use must comply with ANSI Z97.1a-1977.

PE. 2
Certification of plastics for exterior use shall be permitted prior to completion of ANSI Z97.1–1975. Weathering Tests (paragraph 4.3) provided that a considered expert opinion states that the infrared spectrogram indicates that the plastic is an acrylic or UV inhibited polycarbonate of proven weatherability. Certification shall be removed if compliance with the weathering test is not demonstrated within six months of the certification date.

PE.3
For all plastics requiring UV weathering tests an infrared spectrogram shall be obtained of all prototype weathering specimens. An infrared spectrogram shall be obtained of all routine re–evaluation samples and shall be compared with that of the prototype in lieu of conducting weathering test. The spectral scan shall be made using a minimum film thickness of 0.002 inches or its equivalent.

PE.4
When initial Charpy unnotched specimens do not break, then notched specimens shall be used for both initial and exposed Charpy impact testing. The specimens shall be notched prior to UV exposure and the notched surface shall be exposed to the UV.

PLASTICS – INDOOR USE ONLY

PI.1
Sheet plastics used in indoor applications only, do not have to comply with paragraph 4.3 of ANSI Z97.1–1975 (UV Weathering) but must comply with paragraph 4.5.

PI.2
The permanent label authorized by SGCC must include “Indoor Use Only”.

PI.3
For all indoor plastics requiring aging tests, an infrared spectrogram shall be obtained of all prototype aging specimens. An infrared spectrogram shall be obtained of all routine re–evaluation samples and shall be compared with that of the prototype in lieu of conducting aging tests. The spectral scan shall be made using a minimum film thickness of 0.002 inches or its equivalent.

LEADED PATTERNED ANNEALED GLASS

LG.1
Certification of one leaded patterned glass (annealed) may be extended to cover other patterns (on the glass surface) provided:

a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.

b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1–1975 for each alternate pattern proposed.

c) The certification committee is provided with a 6 by 6 inch sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

d) After admission under blanket certification covering leaded patterned annealed glass, any such patterns available may be selected by the administrator for routine testing.

LG.2
Certification of one diamond shaped leaded patterned (annealed) glass may be extended to cover other sizes of diamonds provided:

a) All aspects of the product except diamond size is the same as the certified product.

b)The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1–1975 for each alternate size diamond proposed.

c) The certification committee is provided with a 6 by 6 inch or a proper and representative sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

After admission under blanket certification, any such size diamond available may be selected by the administrator for routine testing.

LG.3
For leaded diamond patterned annealed glass the tolerance for diagonal came center dimensions shall be plus or minus 12 percent.

Prototype samples must have diagonal came center dimensions 10 percent greater than nominal. Diamond size listed in the certified products directory shall be nominal dimensions.

ORGANIC COATED GLASS

AG.1
Thickness of the applied plastic coating shall be measured by the SGCC standard method.

AG.2
The SGCC authorized permanent label, which complies with Guideline G.26 must be imprinted upon or applied to a surface of the plastic for all plastic coated annealed glasses.

AG.3
Prototype test shall be conducted on bent specimens of the surface area at least 50 percent of the maximum size for which certification is desired. Routine tests may be conducted on flat or bent specimens. The test apparatus shall be modified to clamp the vertical straight edges and to support the concave side of the curved edges. Two specimens shall have organic coating on the concave surface and two on the convex surface. Impact shall be on the convex surface.

* * * * *

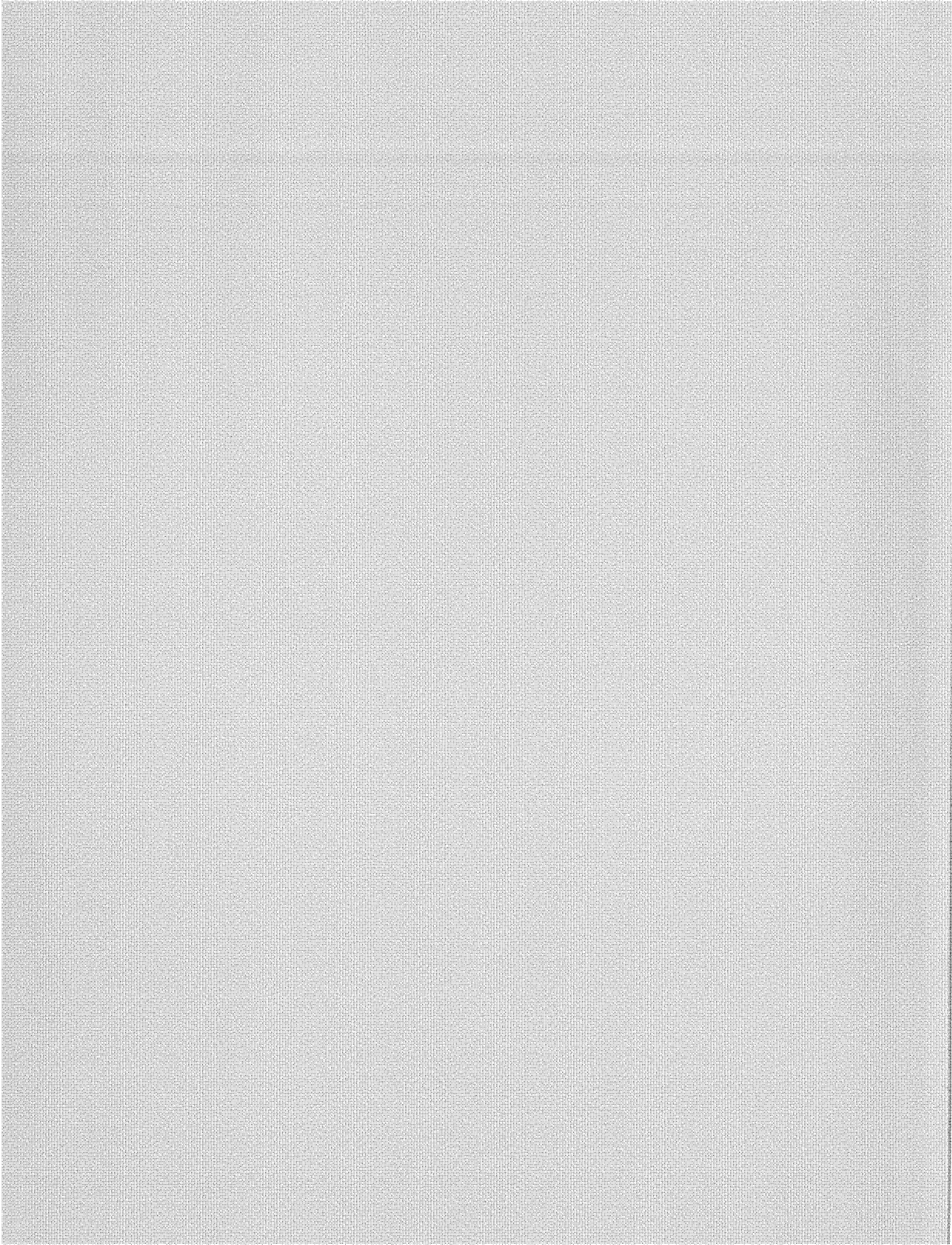
**ANSI Z97.1-1975 Safety Performance Specifications and Methods of Test
for Safety Glazing Material Used in Buildings**

The purpose of ANSI Z97.1-1975 is to prescribe the functional properties of safety glazing materials so that they can be used in any place in buildings for which they possess the requisite characteristics. Intended to serve as a convenient reference for building officials, this new and important document is designed to provide a basis for standards that may be incorporated in federal, state, and local regulations.

Copies of ANSI Z97.1-1975 may be obtained from:

American National Standards Institute
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New York, New York 10018

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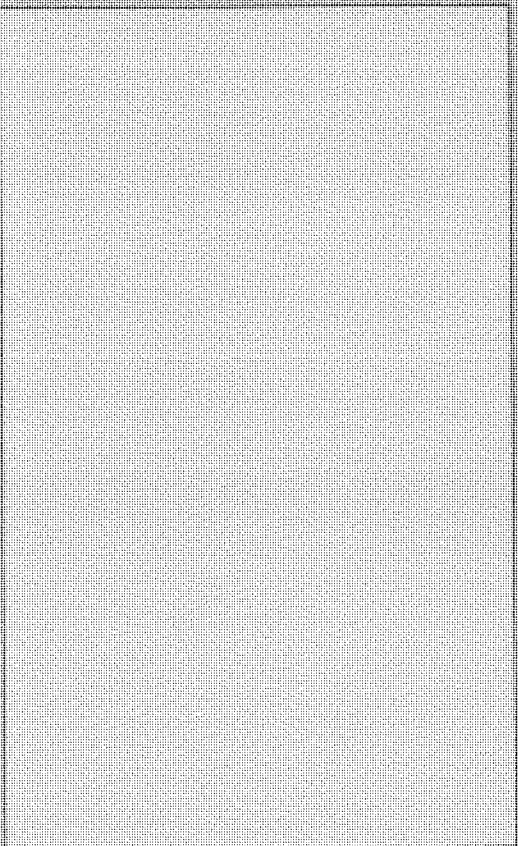
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